



MARCH 11, 1991

# Disney Adventures

**JOHN CANDY  
RIDES THE  
RAILS**

**SECRETS  
OF GYPSIES**

**THE AMAZING  
GLASS CITY**

**TOUGH SKIING**

**PLUS COMICS,  
GAMES AND MORE**



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**BIG ON CHOCOLATE.**

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& Adventure!

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# Adventures

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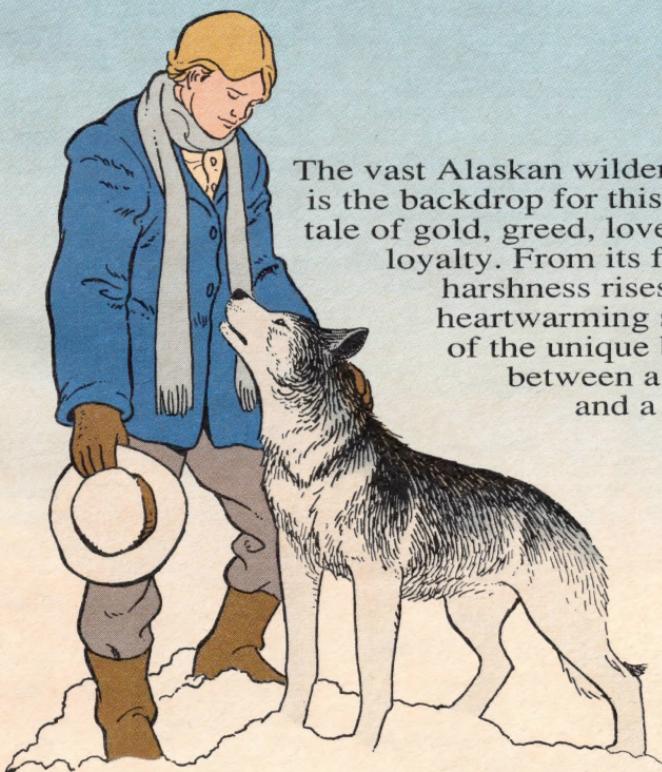
# ALL ABOARD!

We always thought it'd be cool to be a train conductor. So we hit the tracks and wrote about trains. We also talked to John Candy, took tae kwon do lessons and rode a motorized skateboard. (The skateboard came packed in Styrofoam but we discovered a neat way to pack boxes: with popcorn!) Speaking of popcorn, movie-going in the future may mean strapping on a seat belt. Turn the page and adventure on....

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The vast Alaskan wilderness is the backdrop for this epic tale of gold, greed, love and loyalty. From its frigid harshness rises this heartwarming story of the unique bond between a man and a wolf

This graphic novel based on the film adaptation of the classic Jack London story is available NOW at your favorite comic shop from

**Disney**  
**COMICS**

# PASSPORT

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**DISNEY BEAT** • A Disney legend and his  
incredible trains, **page 8**.



ZIP  
CODE

MAIL MAIL MAIL MAIL

DISNEY ADVENTURES needs you! Send us your letters, poems, stories, photos or drawings, and we might publish them! Mail them to: DISNEY ADVENTURES, Zip Code, Disney Publications, 500 South Buena Vista Street, Burbank, California 91521.

I like to cook with my dad or talk to him and tease him. I like to play with my little brother, and sometimes we go to the park. I like to sit on the tractor when they make the sport court, and sometimes I like to ride my bike on the court.

**Kate Tansey**  
**Santa Rosa, California**

My mom teaches me at home, and my favorite things to do are reading and playing the piano. I also like ballet and camping. I like cartoons in books because I can read them over and over again.

**Whitney Smith**  
**Toledo, Ohio**

I just got your new magazine. I think it's great! But I think I found a mistake on page 18. The person in the picture is Dobie Gillis, not Maynard G. Krebs.

**Valerie Proto**  
**Imperial, PA**

*Oops, we goofed! Thanks, Valerie—and everyone else who wrote to point out the mix-up.*

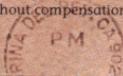


**Whitney Smith and  
Dad in a canoe.**



**Kate Tansey**

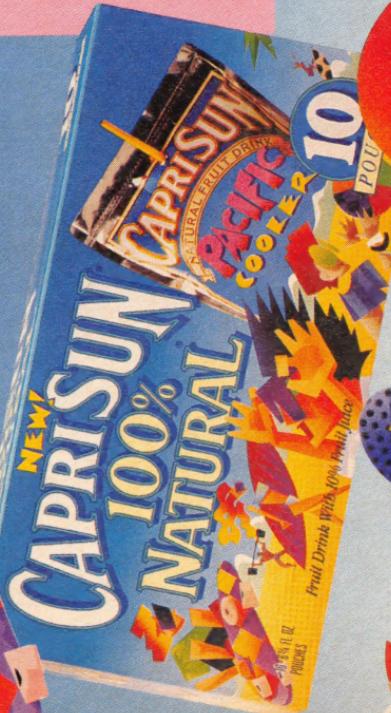
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Marianne Moore  
25 USA

HEY DUDES! IT'S NEW, IT'S NEW!

A NEW FRUIT  
DRINK WITH  
PACIFIC COOL  
+ CALIFORNIA  
STYLE



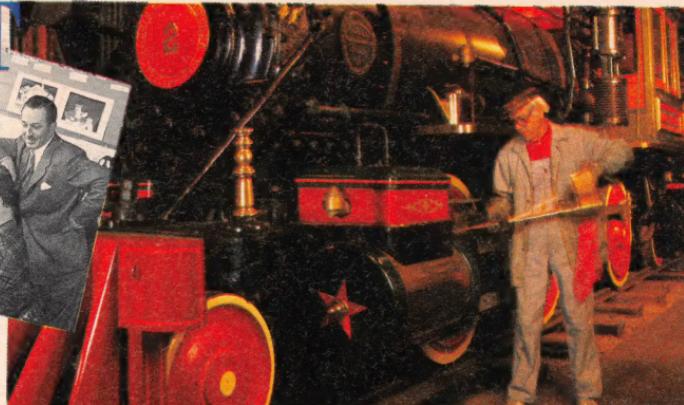
# JIMINY CRICKET!

## Is That a TRAIN in Your Backyard?

Many kids have toy trains—but few kids grow up to have full-scale locomotives in their backyards!

Well, meet Ward Kimball. He's one of Disney's "nine old men," the gifted animators, directors, writers and producers who created some of the most famous classic animated films and shorts that Disney ever made. Jiminy Cricket from the movie *Pinocchio* and the Casey Jones, Jr., locomotive in *Dumbo* are just two of a long list of Kimball creations.

But in the yard behind his home in San Gabriel, California, Kimball has made his own



Left: Ward Kimball (seated) with Walt Disney  
Above: Ward workin' on the Grizzly Flats Railroad



Kimball and friends

childhood fantasies come true. He has created the Grizzly Flats Railroad, complete with two working locomotives, a passenger car, boxcar, flat-bottom gondola, wooden cattle car, depot and 900 feet of track. Kimball himself sometimes puts on his red suspenders

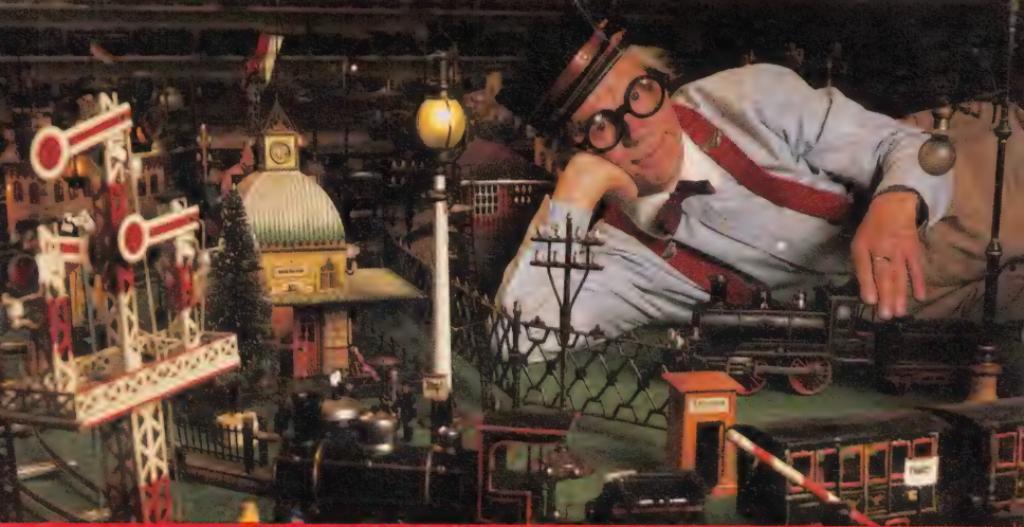
and black felt brakesman's hat and climbs aboard.

Kimball also has thousands of antique toy trains inside a 60-foot-long building in the backyard. The trains are made of tin, wood and cast iron. Some of the early trains are more than 100 years old. Some are pulled on

1.Cut 2.Put in Mom's purse 3.Sit back and watch the SKITTLES® pour in



**Taste The Rainbow.**



### Engineer Kimball layin' down on the job

strings on the floor. Others are electric trains on tracks.

Kimball's interest in trains began when he was a kid growing up in the Midwest. Born in Minneapolis, Minnesota, in 1914, he began traveling the rails on family trips. At the end of a long ride, his parents would take him to meet the engineer. "It was always a big thrill," he says. "In those days, I didn't want to grow up to be president. I wanted to be a locomotive engineer."

Instead, Kimball went to art school in California. Then, in 1934, he answered a newspaper ad for an artist at The Walt Disney Studios. He didn't leave for almost 40 years. He even earned two Academy Awards along the way.

In 1938, he and

his wife Betty bought their first locomotive from the Nevada Central Railroad for \$500. It was an 1881 coal-burning Baldwin locomotive that was about to be torn up for scrap. Friends helped him lay the track. The backyard railroad grew with the purchase of more cars. Even Walt Disney came out for a visit. "His eyes nearly fell out of his head," Kimball says.

For kids who want to collect toy trains, Kimball suggests reading train magazines and thinking carefully about what they want to buy. As for buying a full-size locomotive for the backyard? "Forget it," Kimball says. "You can't find them anywhere."

—Ruth Stroud



## STREET

WHAT'S HAPPENING

## JOHN CANDY



PHOTO: © GARY MOSS/OUTLINE PRESS

Just the thought of John Candy can make you smile. His boyish charm gives him the votes for the person we most want to hang out with. Yet there's a lot more to this funny man who has starred in a slew of films, including *Splash*; *Planes, Trains and Automobiles*; and *Uncle Buck*. For instance, he and his family own an 80-acre farm in Canada complete with cows, ducks and horses. We caught him between

recording the voice of the camp counselor on his animated television show "Camp Candy," and shooting *The Rescuers Down Under*, *Delirious* and *Only the Lonely*. We even managed to ask him a few questions.

**Since this is  
an adventure  
magazine, let's start with  
this: If you could go on  
any adventure in the  
world, what would it be?**

A: Going to the airport is an adventure for me. In certain cities, it's a dangerous adventure. Dealing with some of the airlines is an adventure. A scary one. I wouldn't be hang gliding over an active volcano nor would I be sitting in a bathtub sliding down a mountain. I like fishing, golfing. Fishing in Campbell River, British Columbia, was an adventure. Getting there—going from a large plane to a smaller plane,

switching to an off-road vehicle, driving to a lodge and going through rapids in a boat. Flyfishing and fishing off the jetties was dangerous. That was an adventure, that was exciting. That type of trip intrigues me. We were really out in the wilds. Watching bald eagles swooping down to catch salmon in the river was a sight I won't forget.

**OK, now for your  
serious side: What's  
your favorite snack?**

A: Popcorn. It's a real hand-in-your-face food. It's real primitive. It doesn't matter how you look, everyone eats popcorn the same way. There's no delicate way of eating popcorn. Sure, you can eat it one at a time but that's not satisfying. It's a fun food.

**Do you  
cook?**

A: I make spaghetti and meatballs pretty well. I make good Italian sauces. Italian country cuisine. The basics. Simple. Not heavily spiced. Hearty.





### How old were you when you knew you were funny?

A: I think I was in high school when I became aware that I possessed a sense of humor. I went to an all-boys school in Canada and we had quite a collection of class clowns. One time the guys put someone's Volkswagen between two trees. It was impossible to get out.



### What's Canada like?

A: Canada is a place you should see from coast to coast. I highly recommend taking a trip from Vancouver to Newfoundland, via plane, train or automobile. It's a beautiful country. Great vacation spot.



### Speaking of planes, trains or automobiles, which one do you like the best?

A: None of the above. They all seem to work against me. My favorite mode is the automobile because

I'm in control. I like the comfort of a train if I have the time. I'm not a good flyer. I don't like takeoffs and landings.



### What makes you happiest?

A: I'm the happiest when I'm on vacation with my kids. It's the first two days when I'm the happiest. That goes back to loving school vacations, always loving summer holidays. There's such a warm feeling of knowing school's over, nothing to do, your own time. When I finish a movie, I sometimes equate it to finishing school.



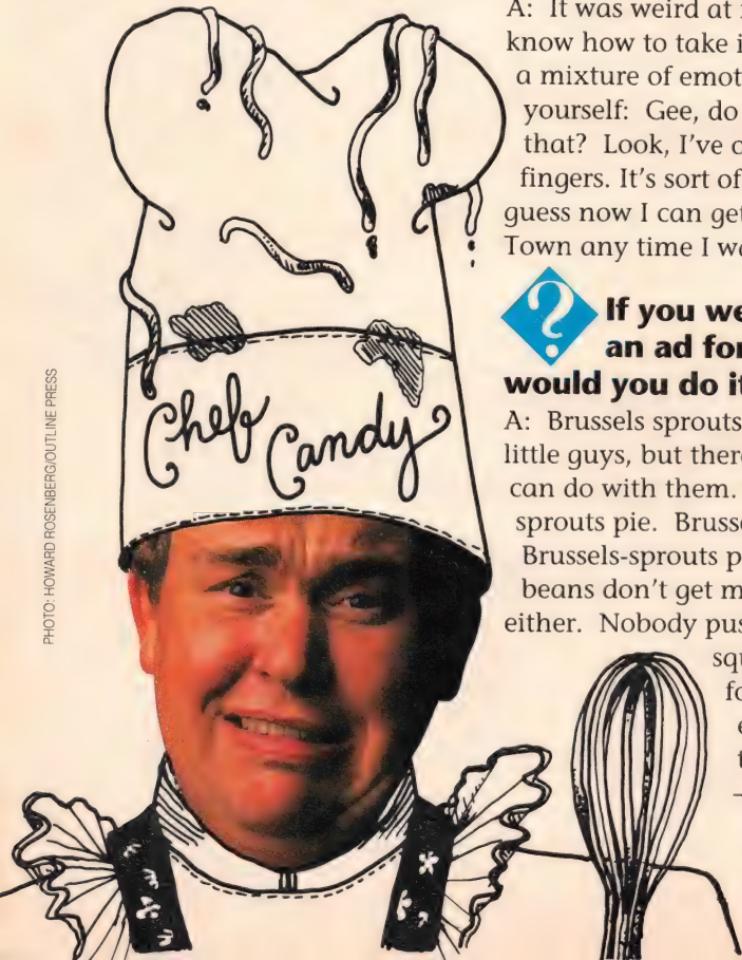


**What would you do if your kids were like the kids in Uncle Buck?**

A: I'd run away from home. They turned out to be good kids in the end, so that would be fine with me.



**We heard you have your own rock group—Guns and Snakes—**



**and you're called John Bon Candy. What instrument do you play? What kind of music?**

A: I'm lead air guitar and lead airhead. We play whatever's on the radio.



**Is it strange to see yourself as a cartoon on your animated show, "Camp Candy"?**

A: It was weird at first. I didn't know how to take it. You go through a mixture of emotions watching yourself: Gee, do I really look like that? Look, I've only got three fingers. It's sort of strange. But, I guess now I can get into Toon Town any time I want.



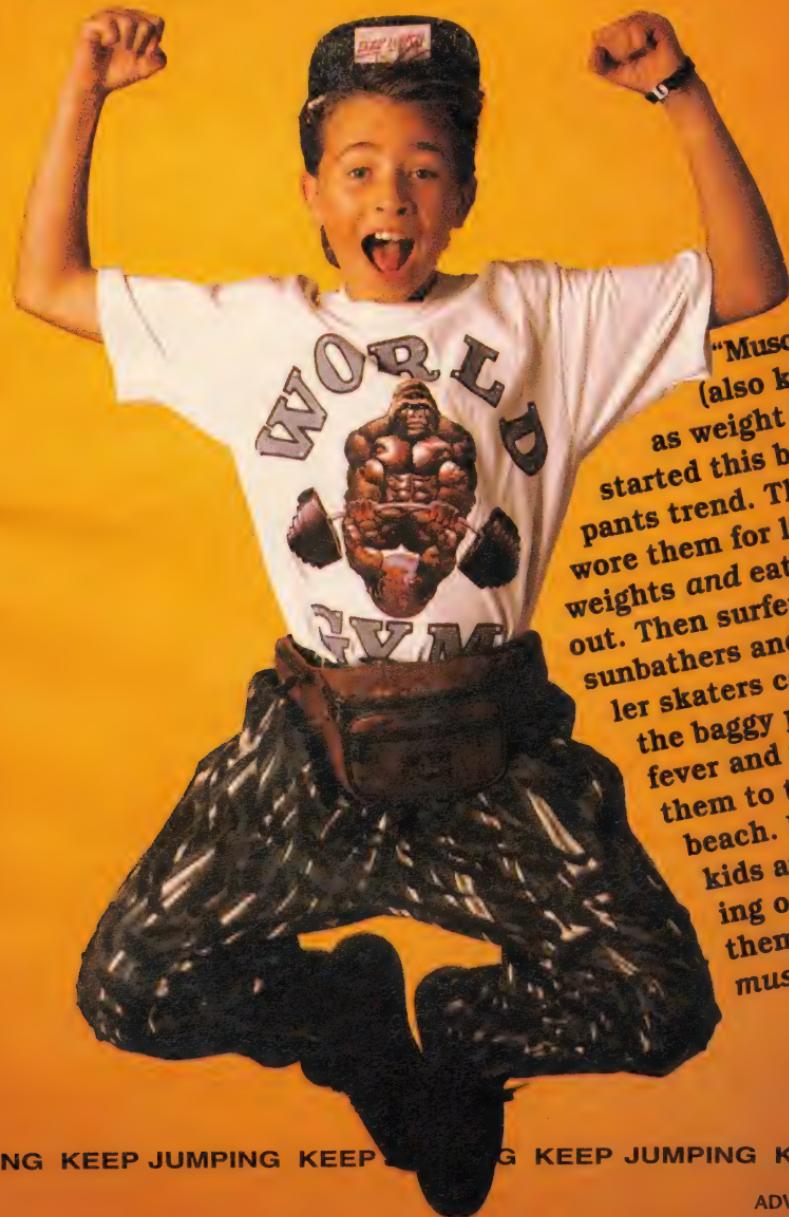
**If you were doing an ad for TV, what would you do it for?**

A: Brussels sprouts. They're cute little guys, but there's not a lot you can do with them. Brussels-sprouts pie. Brussels-sprouts tarts. Brussels-sprouts pudding. Lima beans don't get much publicity either. Nobody pushes summer

squash. A lot of forgotten vegetables out there. It's sad.  
—Robert Crane

# JUMP TO IT!

Out of the gym and on to the beach, baggy pants are here.



"Muscleheads" (also known as weight lifters) started this baggy pants trend. They wore them for lifting weights and eating out. Then surfers, sunbathers and roller skaters caught the baggy pants fever and wore them to the beach. Now kids are hanging out in them. They must be cool.

JUMPING KEEP JUMPING KEEP JUMPING KEEP JUMPING

THE LOOK

Baggy pants come in all  
kinds of colors like neon,  
safari and black and white.



KEEP JUMPIN'



They're great for  
playing basketball,  
going to school or  
just hanging out. So  
put on your fave T-shirt  
and wild-looking baggies,  
slide into your sneakers,  
and get busy!

**Fashion Styling by Shari Geffen/Photography by Bonnie Lewis.**

Opening shot: shirt, cap from **Iron Wear**; pants from **CYA of California**; shoes by **L.A. Gear**.  
Page 16: hand-painted cowboy hat from **Country Life**, Sherman Oaks, CA; T-shirt from  
**Benetton** on Melrose, Los Angeles, CA; pants from **CYA of California**. Page 17: hat by  
**Willie K. Dakota**; motorcycle jacket and bracelets from **Lip Service**, Los Angeles, CA;  
watch from **Benetton** on Melrose, Los Angeles, CA; pants from **CYA of California**.

PING KEEP JUMPING KEEP JUMPING KEEP JUMPING KEEP JUMPING

MOTORHEAD ★ THE CULT ★ PAULA ABDUL ★ BILLY IDOL ★ B.B. KING

EXCEL ★ OZZY OSBOURNE ★ THE DOORS ★ THE SMITHEREENS ★ GEORGE MICHAEL ★ LIVING COLOUR

# To [o]L

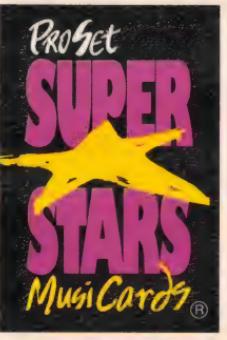
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HOTHOUSE FLOWERS ★ MADONNA ★ LED ZEPPELIN ★ ANNIHILATOR ★ MC HAMMER ★ JANET JACKSON

## MOVIES

Move over, Brooke Shields! Fifteen-year-old supermodel **Milla Jovovich** will star in **Return to the Blue Lagoon**. Milla and **Brian Krause** (you might have seen him on **"Bay Watch"**) are stranded on a desert island in this sequel to **The Blue Lagoon**. . . . Speaking of desert islands, **Ship-**

**Wrecked!** is a great adventure story about a 14-year-old Norwegian boy who gets lost at sea and discovers a cave full of lost treasure.

. . . **Robin Williams** is quite a character—he once played Popeye and now plans to play Peter Pan in **Hook**, directed by Steven Spielberg. . . .

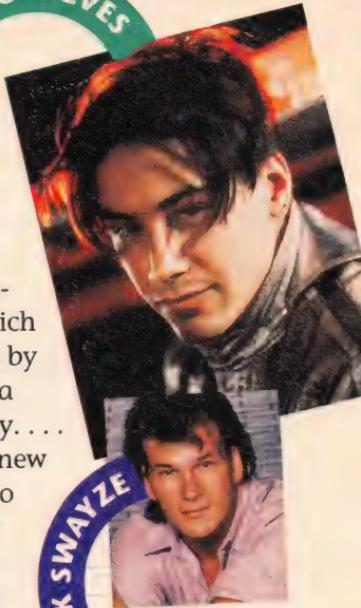
**Keanu Reeves** as a surfin' FBI agent? You got it! In **Point Break** he investigates a group of radical surfers in Hawaii and runs into **Patrick Swayze**. As for the stunts, both guys like to surf—but Patrick said he wouldn't skydive! . . . After **Rocky V**, **Sylvester Stallone** decided to take a break from playing tough guys—and take on a comedy! He stars in **Oscar**,

## KEANU REEVES

the hilarious story of an everyday guy who tries to impress his rich neighbors by throwing a huge party. . . . There's a new addition to the recent remake craze and this time

**"The Addams Family"** is back. . . . Who will play Morticia? Will Spot, the fire-breathing "dog," still live in the basement?

Stay tuned....



## PATRICK SWAYZE

## THE ADDAMS FAMILY



## VIDEO

Ever wonder what the characters from your favorite stories would look like if they came to life? Well, **Adventures** has a list of great books that have been made into movies. . . . Pick up the book at your library and read it before

seeing the video:

**Anne of Green Gables**, by Lucy Maud Montgomery—**Megan**

**Megan** plays the spunky Canadian who lands in loads of mischief. . . . **To Kill a Mockingbird**, by Harper Lee—**Gregory Peck**

plays a Southern lawyer who defends a man on trial and explains to his children the meaning of justice. . . . **Shane**, by Jack

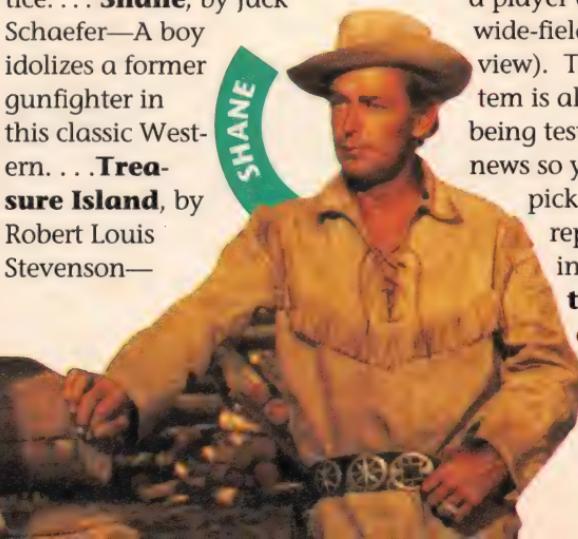
Schaefer—A boy idolizes a former gunfighter in this classic Western. . . . **Treasure Island**, by

Robert Louis Stevenson—

ANNE OF GREEN GABLES



SHANE



TO KILL A MOCKINGBIRD

Disney's exciting adventure story about pirates who travel to a mysterious island.

TV

Get ready, sports fans. . . . there's a new technology called **Interactive TV**. It's like do-it-yourself directing: You get to choose from one of four screens, each showing a different event (great for watching the Olympics) or camera angles (like a close-up on a player or a wide-field view). The system is also being tested for news so you can

pick more in-depth reports on the stories you're interested in. . . . **Orangutans**

at the San Diego Zoo are true couch potatoes—they love to watch television. Their favorite programs? Game shows.

ORANGUTANS



# MUSIC



JANET JACKSON

Congrats  
to Janet Jackson!

She's the first female artist in  
pop history to land five Top Five  
hits on back-to-back albums

**(Control and Rhythm Nation 1814).** What's her favorite song  
on the **Rhythm Nation** album?  
"I'm really proud of 'Black Cat'  
because it's both rock and funk. . .  
and it's the first song I've ever written  
completely on my own," Janet  
says. . . Dozens of  
musicians get involved in good  
causes. **Elton John** joined the  
**Traveling Wilburys** to  
work on an  
album to  
benefit

children  
with AIDS....

**River Phoenix** tried his  
hand (and did a great job) at  
singing on the  
new album

## Tame Yourself.

The money  
from the  
album will  
go to organizations that  
work on improving the treatment of animals.  
The all-star record also features  
**Howard Jones, The B-52s, Erasure**, and **Belinda Carlisle** and  
her Go-Go's buddy **Jane Weidlin**.



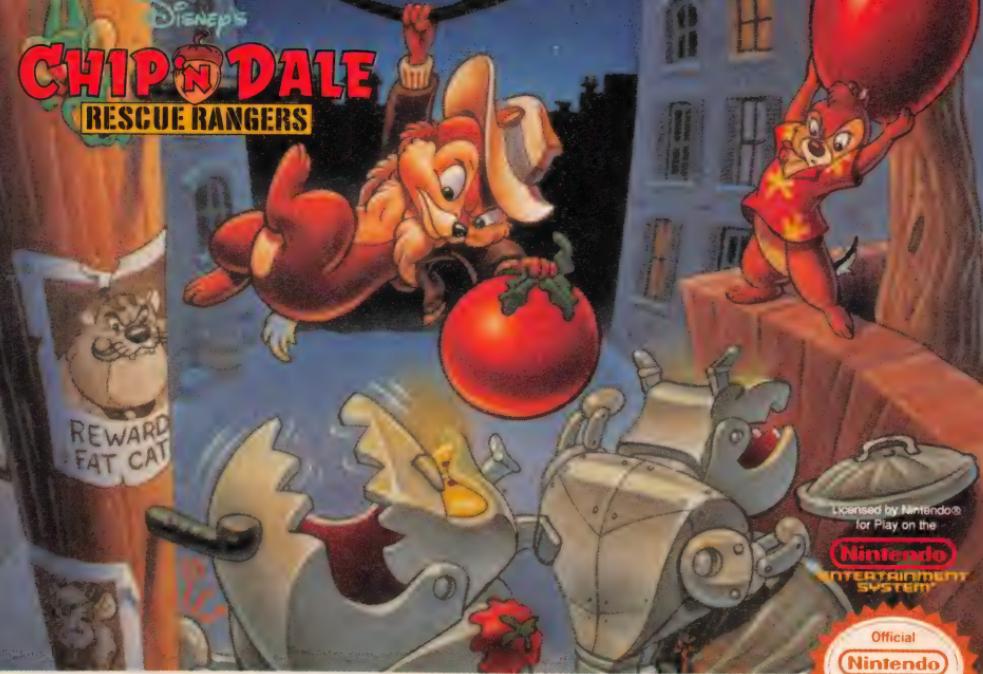
**Mark-Paul Gosselaar** (March 1),  
**Jon Bon Jovi** and  
**Heather McComb**  
(March 2), **David Faustino** (March 3), **Bruce Willis** (March 19).



TRAVELING WILBURYS  
RIVER PHOENIX



Disney's  
**CHIP 'N DALE**  
**RESCUE RANGERS**



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# HANG TOUGH! BE A RESCUE RANGER.



Join Chip 'n Dale's  
RESCUE RANGERS to  
thwart Fat Cat's  
evil attempt to  
take control of the city.

Chip 'n Dale, those pint sized but courageous Disney Detectives, have received another desperate call for help.

The evil Fat Cat has kidnapped their friend



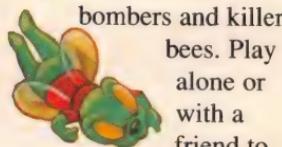
Gadget.. his sinister goal-  
to use her inventions to  
take over the city!

Journey from the darkest  
depths of the slimy sewers  
to the electrifying heights  
of live telephone wires!

Defend  
yourself  
against Fat  
Cat's army  
of henchmen and robotic  
creations.



Many challenges lie  
ahead of you- avoid  
mechanical dogs, hawk



bombers and killer  
bees. Play  
alone or  
with a  
friend to  
locate Fat Cat's headquar-  
ters and thwart his diabolical  
scheme!

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Zipper, and Gadget in this  
action-packed adventure!

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Disney's

## TALESPIN

"A PIECE  
O' DA  
ACTION"

OH, MAN!  
JUST WHAT I  
DIDN'T NEED!

WHAT ARE  
YOU DOING  
HERE ???

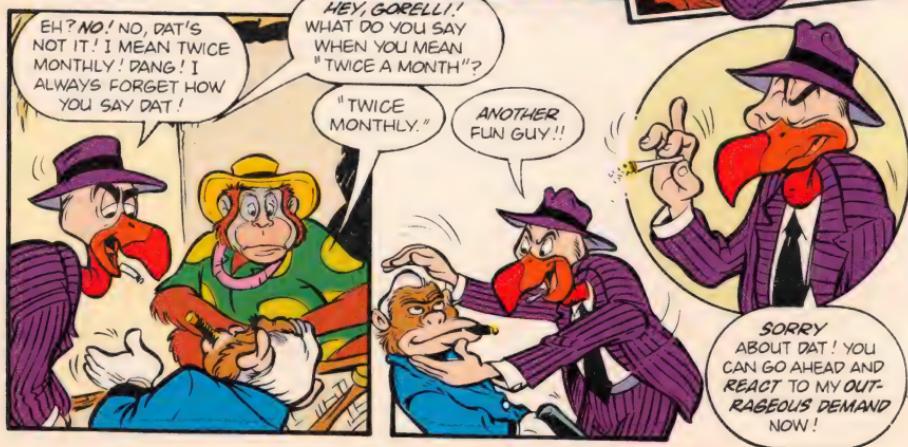
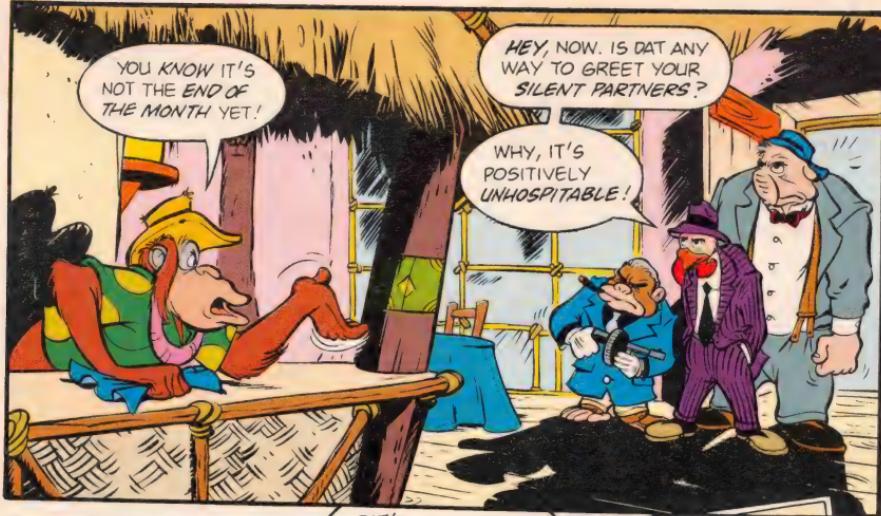
Writer: Doug Gray

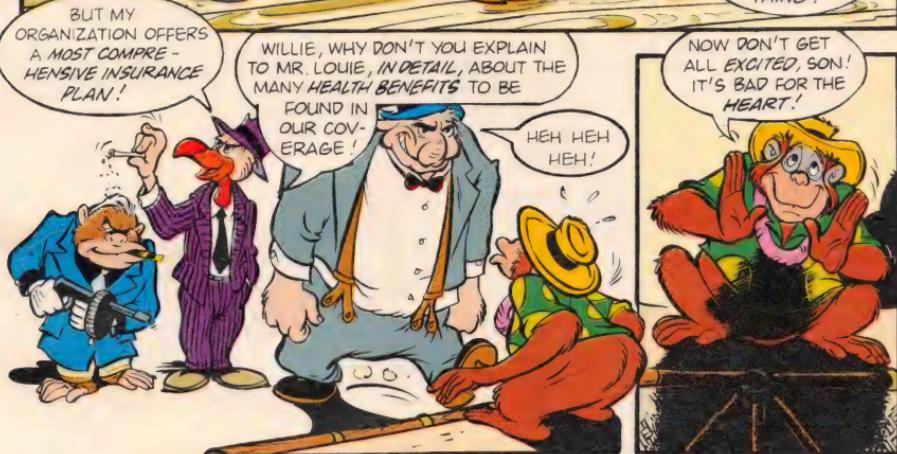
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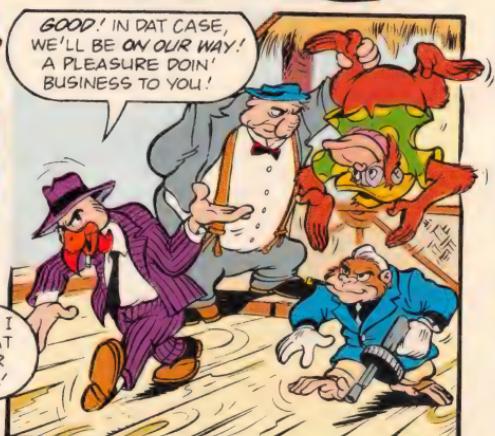
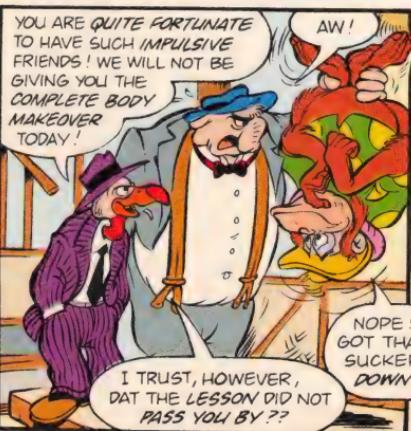
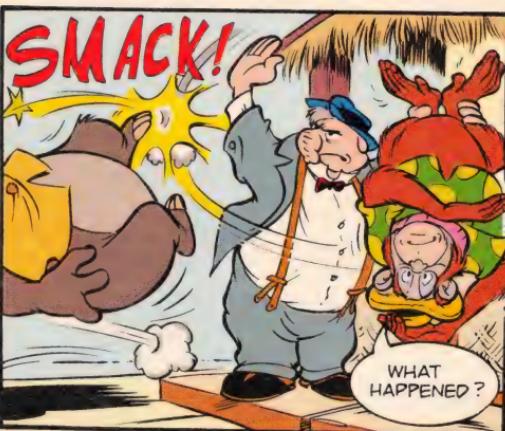
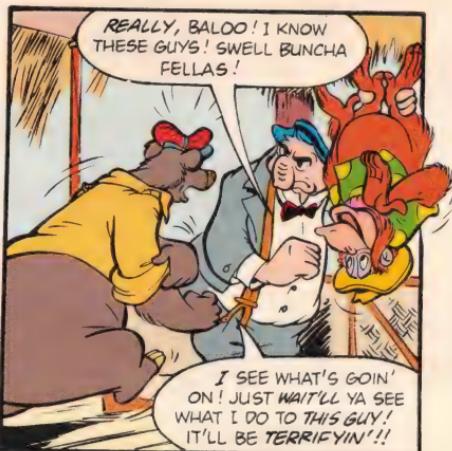
Artists: Jorge Sanchez/Carlos Paura

Coloring: Valerie Dal Chele



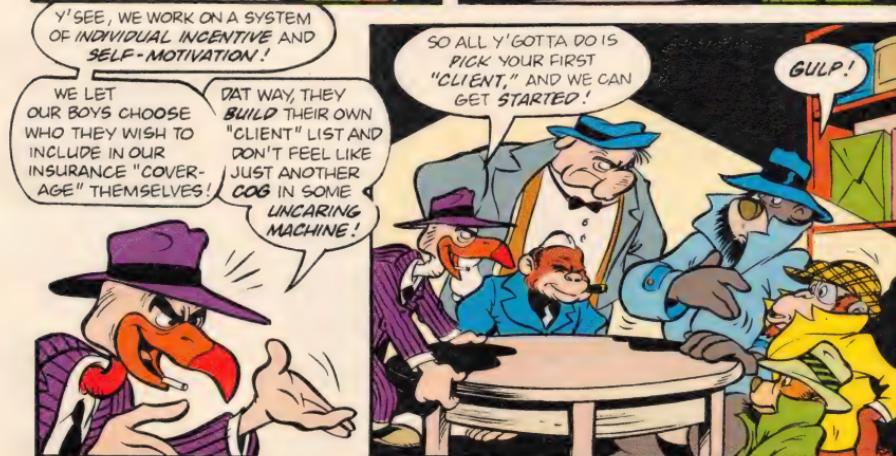
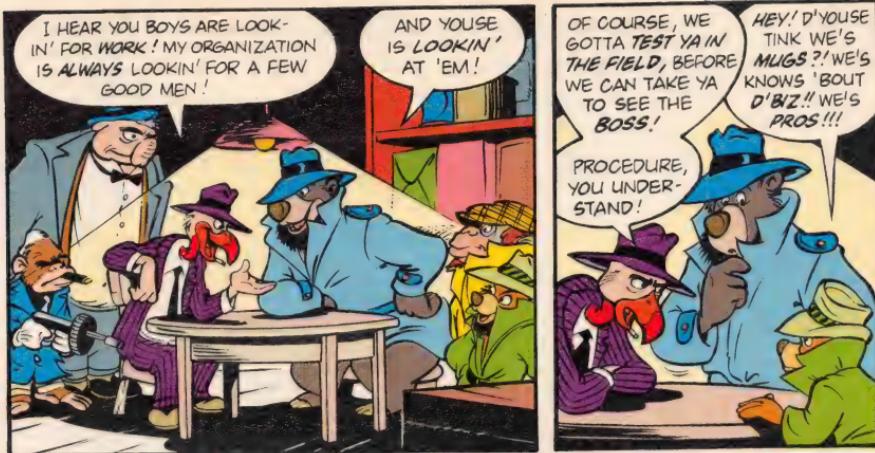


















Disney

# Adventures

Don't  
Miss  
Out

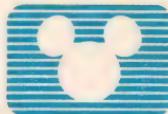
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# WHO ARE THE WINNERS OF THE GREATEST ADVENTURES SWEEPSTAKES

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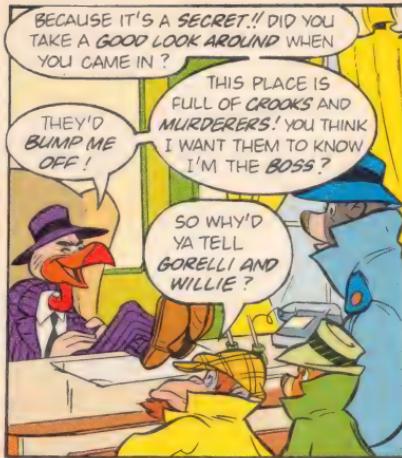
## FIRST

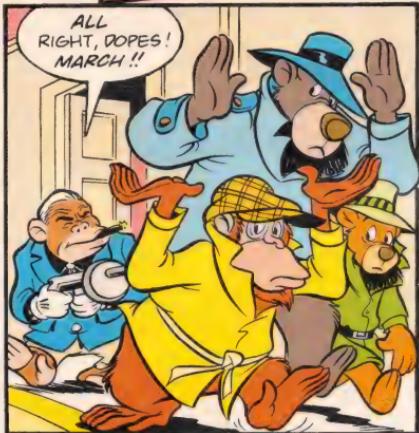
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LOOK FOR THE PROFILE OF THE  
GRAND PRIZE WINNER AND NAMES OF OTHER WINNERS  
IN THE NEXT ISSUE OF **DISNEY ADVENTURES**.





MAN! THIS IS AN  
INCREDIBLE DISPLAY  
OF SPEED!!

COME BACK!  
I'M SUPPOSED TO  
SHOOT YOU!

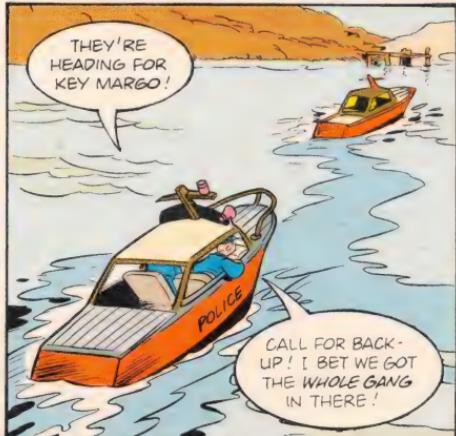
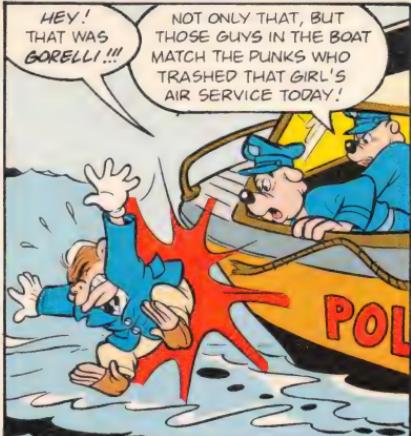
MAN!  
WAS THAT  
CLOSE!!

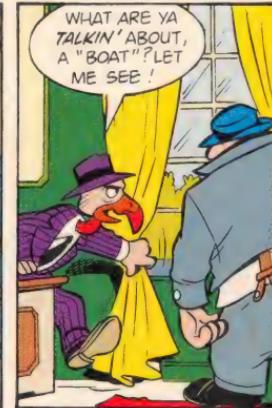
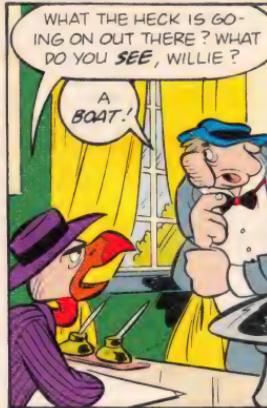
HOWEVER...

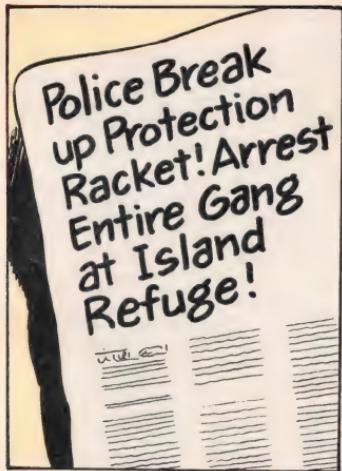
NOW WHAT ??  
MOSQUITOES ???  
THOSE AREN'T  
MOSQUITOES! THEY'RE  
BULLETS! LOOK!!!

HAH HAH HAH!  
GONNA GETCHA!  
GONNA GETCHA!

HAH!!!







END

# Backpack

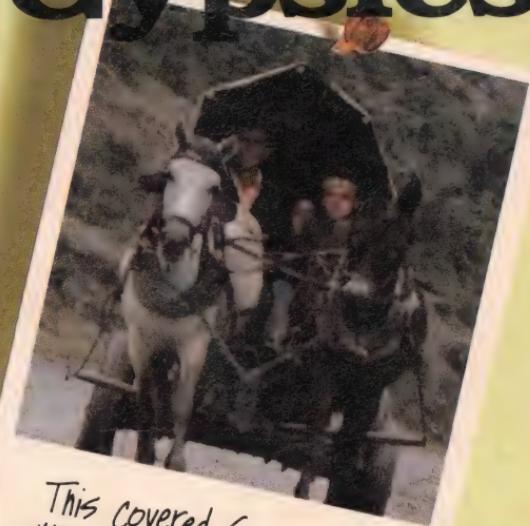
A GUIDE TO THE WORLD

I have always been fascinated by Gypsies. For me even the word "Gypsy" calls up images of freedom because Gypsies are continually moving from one place to another, always searching for something new. My father told me that when I was born in Czechoslovakia my parents had a party to celebrate my birth, and for three days and three nights the Gypsies played music. (Gypsies are some of the most talented musicians you will ever hear in your life!) So, from the time I was a baby, I had this beautiful Gypsy music singing in my head. But when I grew to be an adult, I heard terrible stories about Gypsies. I heard, for example, that they were liars and thieves and that sometimes they even kidnapped Gadjé babies in the dead of night. (Gadjé—pronounced *Ga-gee*—is the Gypsy word for a non-Gypsy.) I decided to find out the real truth. But Gypsies are known never to



In this real-life adventure, our explorer Douchan Gersi takes you on his journey to meet the Gypsies.

## Secrets of the Gypsies

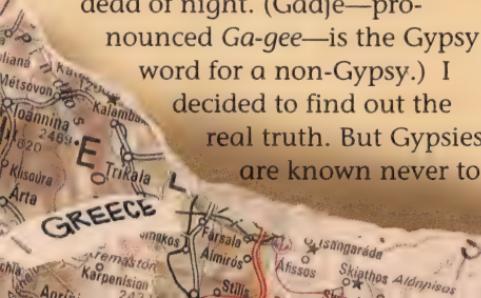


*This covered wagon was my traveling house in Yugoslavia.*

reveal their secrets to outsiders. How would I get them to accept me? In preparation for my expedition, I decided to learn *Romanes*, the Gypsies' language. But still, I had to find a Gypsy who would trust me.

PHOTO: EK WALLER

PHOTO: EK WALLER





I spent a lot of time listening to Zarko play the "balalaika" (the Russian version of the banjo).

Finally, one day luck was with me. I was walking through the plaza of a small town in France when I saw an old Gypsy man sitting outside the local church, stirring a huge caldron filled with pure liquid gold. I was amazed! The caldron was heated by a huge fire, and into the sparkling liquid the Gypsy was dipping elaborately decorated bowls and candlesticks. I walked toward the old man, but three fierce-looking young Gypsy

men stood in my way. "You may not come any closer," one of them said.

Instead of replying in French, I spoke to them in their own language, Romanes. To my surprise, the old man looked up and caught my eye. He nodded to the three

**When he  
smiled, I saw  
that every  
tooth in his  
mouth was  
covered in gold!**

men and waved for me to approach him. When he smiled, I saw that every tooth in his mouth was covered in gold!

In the weeks that followed, the old goldsmith, whose name was Milos (pro-

nounced Mee-losh), became both my friend and my guide to the secret world of Gypsies.

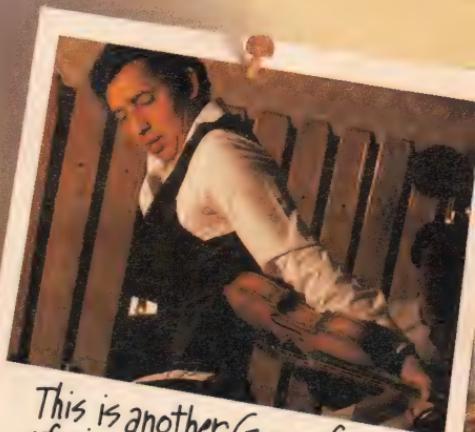
I already knew that Gypsies were divided into different tribes. There are tribes of horse traders, tribes of basket makers and tribes of musicians. There are also tribes of animal trainers who are famous for teaching enormous bears from the Carpathian Mountains to dance. And there are tribes of goldsmiths and jewelers like Milos. When I followed Milos and his tribe, we

traveled in a caravan of colorfully decorated trailers from town to town. (Gypsies own nothing but that which they carry in their caravans.)

The Gypsy men and boys usually wore black and the women and girls wore lots of brightly colored shirts and lots of gold jewelry. Because Gypsies don't stay in one place, they don't use banks. Instead, their



Here's my friend Trifoun, finishing a basket.



This is another Gypsy friend of mine, Nourzod, who plays the violin.

jewelry is their savings account. Gypsies' other "savings account" is their generosity. If one Gypsy helps another, he in turn will be given whatever he needs by those he has helped in the past. So when a Gypsy helps his friends, it is like putting money in the bank!

Although Milos welcomed me into his family in most ways, there were certain secrets he refused to reveal to me. I knew he had a

reputation for practicing magic and healing. But whenever I would ask about this, he would smile his gold-toothed smile and change the subject. Finally, he said, "If you really want to see how the Rom live [Rom is what Gypsies call themselves], you should go to Yugoslavia."

Milos told me to look for Zarko, the leader of a tribe of Yugoslavian Gypsy horse

traders. I traveled with Zarko and his tribe for several weeks, then they introduced me to other tribes. Even with introductions, whenever I met a new tribe of Gypsies they usually had some kind of test for me. (One old Gypsy man threw a

chair at me just to see what I would do.) Always if I passed the test I was accepted with great hospitality. I traveled with Gypsy families to Greece,

Turkey, Iran, Afghanistan, India and Morocco. Eventually I followed a Gypsy family back to France to visit my friend Milos and his tribe.

When I finished telling Milos the story of all my Gypsy adventures, he sighed. "All right," he said, "I suppose you have earned the right to hear what I am about to tell you." He reached into a decorated box and pulled out a live toad. "Toads are the secret," he said. "I use toads to heal and for other magic

GREECE

TURKEY

because toads are magical." He smiled. "The next time you pass a toad in the road that has been killed by a car, look closely and you will see that a dead toad never rots. He just dries.

"One more thing," he said.



It wasn't easy sleeping in the covered wagon because this huge bear wanted to sleep next to me.

"Whenever you have a difficult question, imagine each of the different solutions one by one. The toad will always appear when you are imagining the right solution."

Eventually Milos and his family traveled one direction and I traveled another. But a part of his

Gypsy wisdom will always stay with me: "You Gadjie think you are rich if you have big houses and important friends," he told me, "but for a Gypsy, the whole world is his house and every Gypsy is his friend forever. So who is the richer? You or us?"

—As told to  
Celeste Fremon



That's Boh-Boh, who would have loved to bite me if he could have.

# Spying on Animals

A nature special I watched on TV gave me an idea for a new hobby that I don't even have to spend my allowance on.

In the TV show, two men were searching through a rugged canyon in a national park for a wounded mountain lion. They wanted to capture it and give it some medicine. They were expert trackers. I had only seen trackers in Western movies when bad guys were being hunted by the sheriff.

These real trackers watched for footprints in sandy areas, bent grasses and what they called "recently disturbed"

rocks. They looked a long time, but finally they spotted a trail and found the mountain lion. The narrator said they had saved its life.

Last Saturday I thought I'd try tracking. I sometimes see birds go under a big bush



in my backyard. I crawled under the bush and looked for bird tracks.

I saw lots of bird tracks. I also saw

tracks that didn't look like they were made by birds—unless they were birds dragging sticks.

I asked my brother what kind of bird would drag a stick and he didn't know. Then he said what he always says: "Why don't you go to the library and get a book?"

Sometimes he's right. At the library I found some books about tracking. They showed pictures of all kinds of tracks.

Finally, I found what I was looking for. A bird hadn't made the track I saw at all. It was made by a field mouse. The "stick" mark was made by the mouse's tail!

Those books had a lot of great ideas. They said that to practice reading tracks, I should smooth out a piece of ground so that all marks and tracks are erased. Then the books said to put down some grain or seeds or cheese that an animal might like to eat. Every day I look at my cleared off spot and try to identify the tracks I find.

So far, I've found the tracks of a mouse, a squirrel and a jackrabbit.

Now, when anybody in my family asks me what I'm doing out in our backyard for so long, I just say, "I'm keeping track of tracks."



# PACKING WITH POPCORN

To: Michael



**Hold the butter!** Would you believe that the next time you pop a batch of popcorn you could be helping the environment? Corny as it may sound, America's favorite movie munchie has become a major pollution solution! Here's why...for years, people protected things they shipped in boxes with little white nuggets of polystyrene foam or "Styrofoam." While they look much like real popcorn, these plastic puffballs are different in some very scary ways.

Styrofoam popcorn looks like food to animals, but it's not.

Animals that eat it are in trouble because it clogs their stomachs. Sea turtles can't dive after eating a Styrofoam lunch because it makes them float.

On the other hand, real popcorn *can* be eaten safely by animals. Used popcorn packaging can even be fortified and fed to farm animals.

Doesn't real popcorn rot? It sure does! Popcorn will keep long enough to protect the birthday gift you sent your friend, then eventually it will lose its crunch, crumble into pieces, and naturally return to the earth from which it grew. That's why more and more companies are now packing with popcorn.

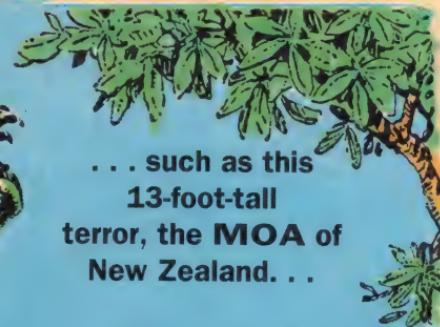
—Vicki Whiting

Disney True Life Adventures

**THINGS  
with  
WINGS**

When the great  
**DINOSAURS**  
were finally  
extinct, they were  
replaced by big  
**BIRDS...**

TINTING: CRIS PALOMINO



... such as this  
13-foot-tall  
terror, the **MOA** of  
New Zealand...

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... and this  
**South American**  
eight-foot-tall  
**ONACTORNIS.**

Neither could fly but they were scary creatures.

# OUT OF THIS WORLD!



Disney  
COMICS

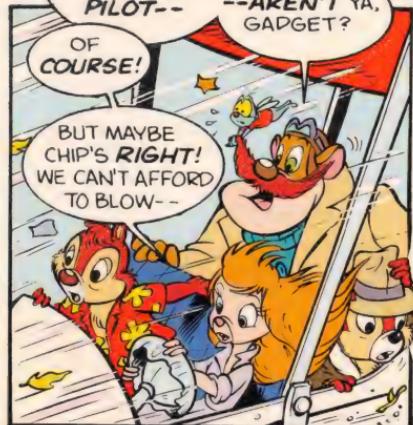
AT COMIC SHOPS AND NEWSSTANDS!

Disney's

**CHIP 'n DALE**  
RESCUE RANGERS™**"GONE WITH THE  
BREEZE"**YIKES!!  
WE'RE GOIN'  
HIGHER!GADGET,  
THIS WIND-  
STORM IS  
GETTING  
WORSE!MAYBE  
WE SHOULD  
LAND AND  
WAIT IT  
OUT!AH, DON'T  
FRET, MATES!  
GADGET HERE'S  
AN ACE  
PILOT----AREN'T YA,  
GADGET?OF  
COURSE!BUT MAYBE  
CHIP'S **RIGHT!**  
WE CAN'T AFFORD  
TO BLOW--

--AWAAAAY--!!

KZ 4790

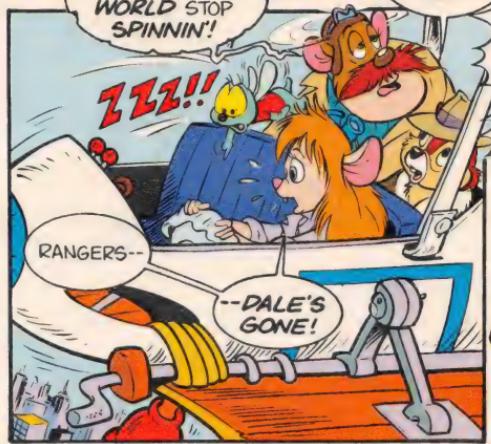


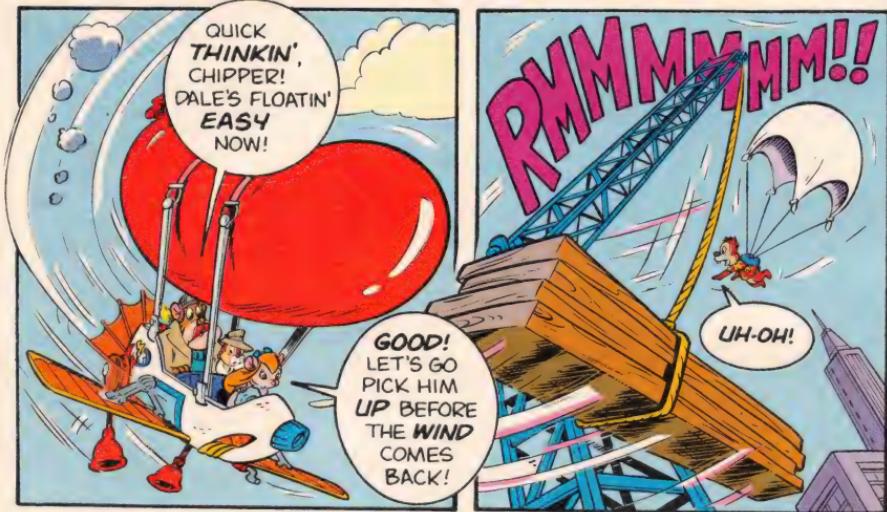
Writer: Bobbi JG Weiss

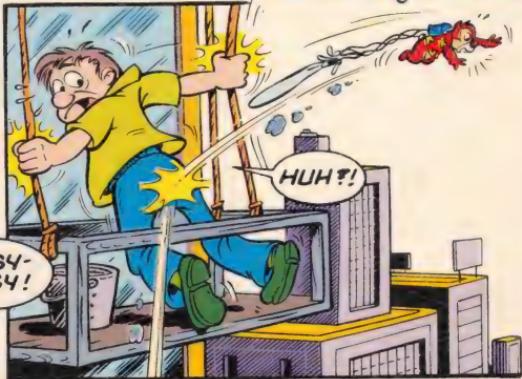
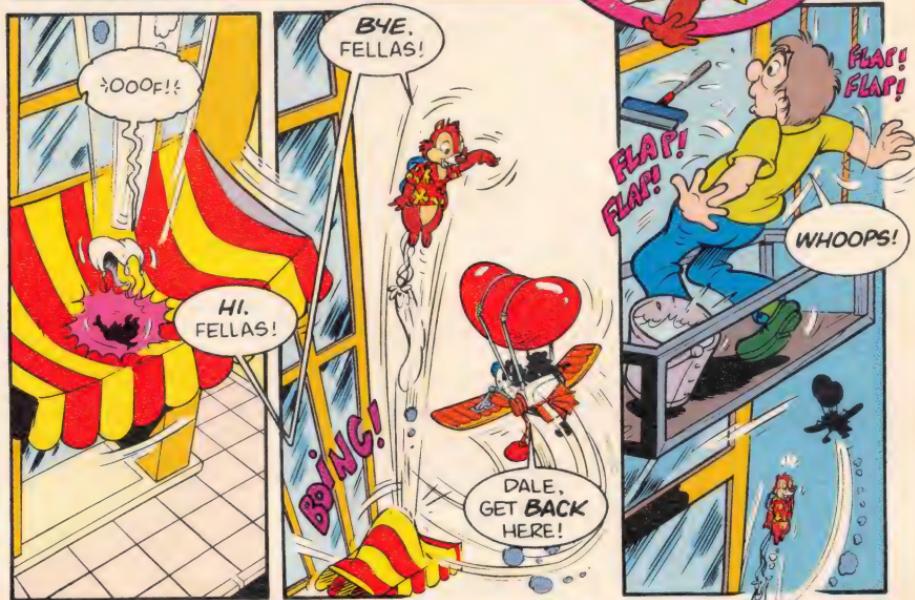
Artist: Oscar Saavedra/Carlos Valenti

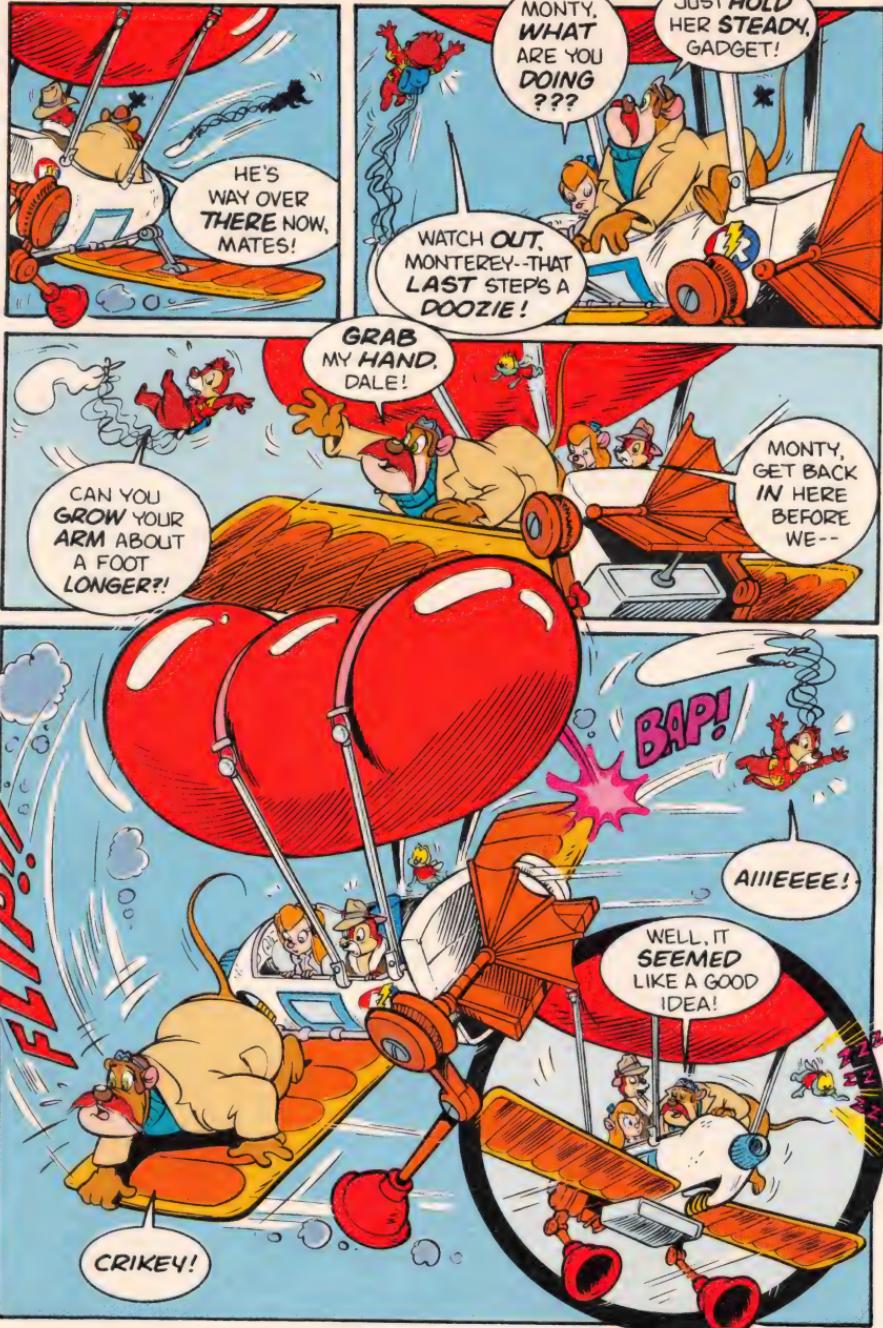
Lettering: Dan McKinnon

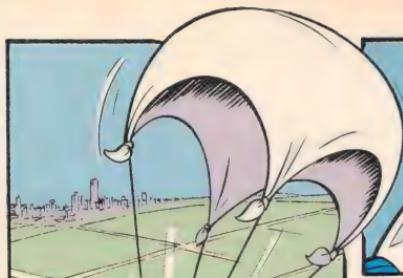
Coloring: Michele Wolfman

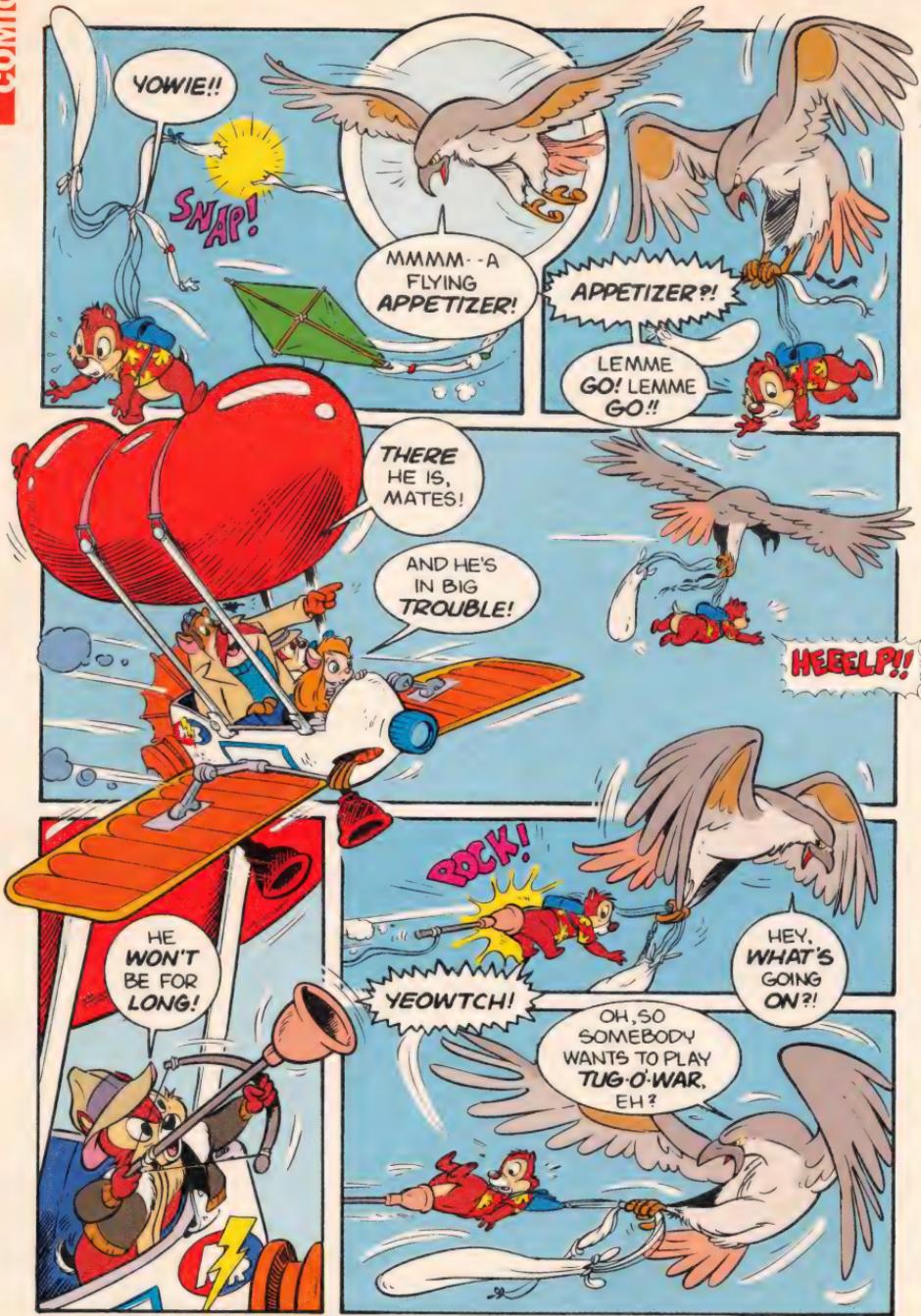














END

# READ

Bo Jackson  
for America's  
Libraries

American Library Association

# IBIG Adventures



## ◆ TALES OF THE TRAINS ◆

*By Clifton Ellis*

It's dark out. A lonely whistle wails over the shadowy countryside as a train rushes along the rails towards the horizon. Its windows blaze light into the night, and you can see the people inside, talking, laughing, eating, sleeping. Turn the page and climb aboard for exciting stories about trains.

# ALL ABOARD!

## DESTINATION:

### ◆ TRAINS THROUGH TIME ◆

A train swoops down gleaming railroad tracks, its wheels clackety-clacking along in an exciting rhythm. Where is it going? Who is on board? And what adventures are waiting to happen? The lonely sound of a train whistle in the distance has called many people to ride the rails in search of excitement.

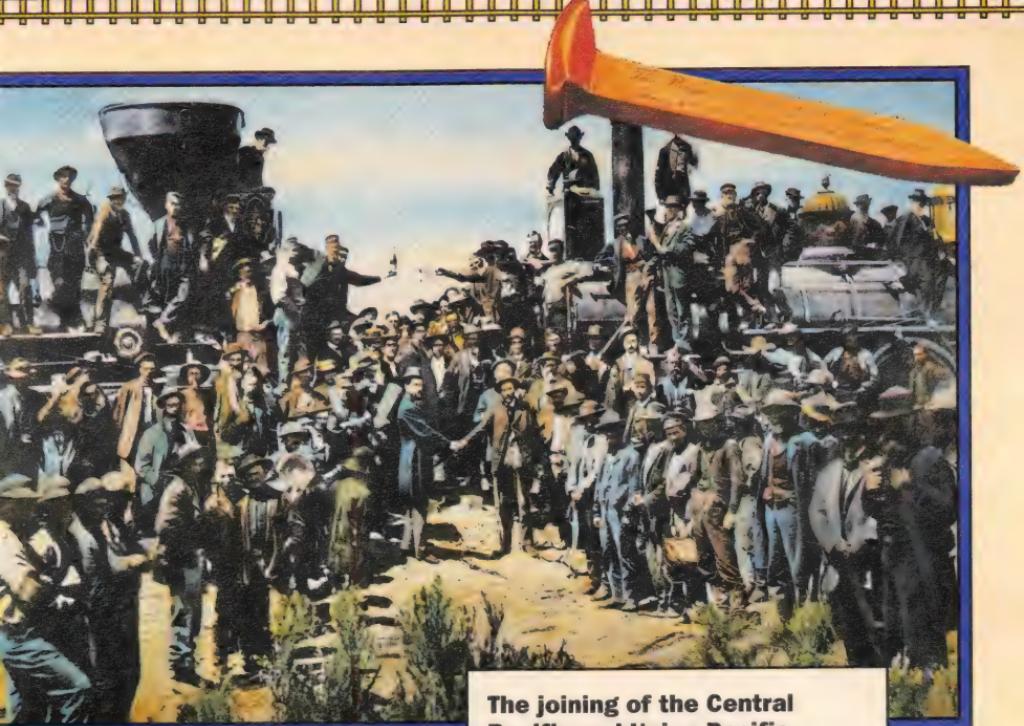
Trains have been around for a long time, in one form or another. Thousands of

years ago,

the Assyrians built stone roads with grooves. The wheels of their carts fit in the grooves, making it much easier to push or pull the carts. The Romans built these same kind of tracks all over their empire. In fact, Roman tracks were discovered in Wales a thousand years after they were built—when the British were building their own railroad. Then the steam locomotive was invented in the nineteenth century and a revolutionary form of transportation was born. From the



**The Tom Thumb Locomotive races a horse-drawn car from Ellicott Mills to Baltimore in 1830.**



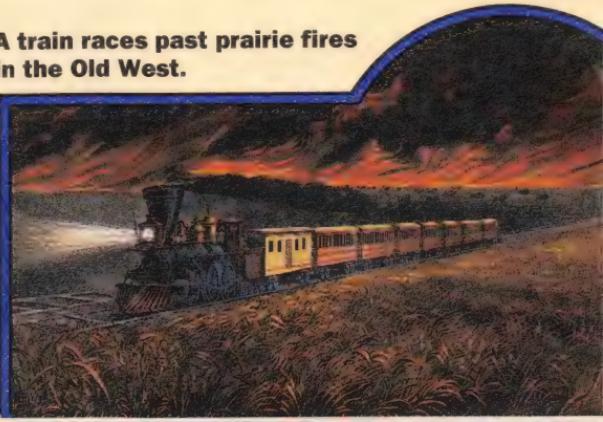
**The joining of the Central Pacific and Union Pacific Railroads at Promontory, Utah, on May 10, 1869.**

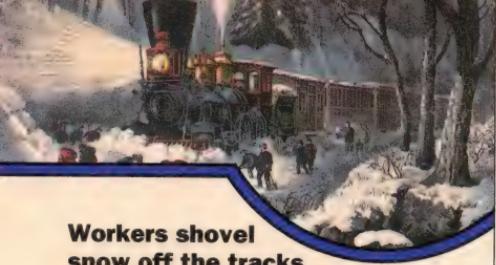
beginning of time, people had traveled on foot at about four miles an hour. By 1828, people *still* traveled only 10 miles an hour. But in 1850, the Victorians were traveling by train at 70 miles an hour! Trains were as fantastic to them as the space shuttle is to us.

The story of America is the story of trains: laying thousands of miles of track westward, rolling over the great prairies past herds of buffalo, building cities wherever the trains stopped. A little over a hundred years ago, the

United States was linked from coast to coast by one very long railroad, the Central Pacific. In 1863 one team of workmen began laying railroad tracks from the west, and two years later another

**A train races past prairie fires in the Old West.**





**Workers shovel snow off the tracks so the train can go through.**

team began from the east. The goal was for both teams to meet in the middle.

Because so many Americans were fighting in the Civil War, the railroads brought thousands of men from China and Ireland to work on laying the track. The workers used only picks and shovels, mule-drawn carts and black explosive powder. There were bridges to build across rivers, tunnels to blast through mountains and hills to be flattened for the tracks.

In spite of all the obstacles, this incredible project took only six years. On May 10, 1869, a golden spike was driven into the last rail at Promontory, Utah, and the transcontinental railroad was finished.

The Golden Age of Railroads in the United States was just beginning.

**Trains are fun to watch, but they're also very dangerous. Never play on train tracks or around the train itself.**

# **BIG TIME**

**HANG ON!  
◆ FOR SOME OF THE ◆  
GREATEST TRAINS  
◆ EVER BUILT! ◆**

◇ The 999 *America* was a steam locomotive that carried passengers on the New York and Hudson River Railroad. In 1893 it broke the speed record by going 112 miles per hour. No human had ever ridden in a vehicle that went that fast! The 999 *America* was so special that Congress issued a special stamp in its honor.

◇ Steam locomotives were replaced by trains that ran on diesel





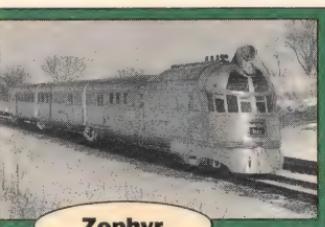
**999 America**

fuel, like the *Pioneer Zephyr*. Since it didn't have to carry its own coal, wood or water to fuel its boiler, it could make fewer stops to refuel. And it was much lighter and faster. It had a sleek aerodynamic design and was made of stainless steel and aluminum.

When it made its first trip in 1934, two million people lined the

track from Denver to Chicago to watch it swoosh by. The days of steam were over!

◇ The *Amtrak Turboliner* is the newest locomotive in the United States. Its engines are turbo-powered. That means it has turbine engines, similar to jet engines,



**Zephyr**

that power the train.

◇ The *TGV* is a French train. *TGV* stands for *train a la grande vitesse*, which means "high-speed train." The *TGV* runs on tracks just like a regular train. But above the train is an electric wire. The train's engine is attached to this wire by a flexible pole. The pole conducts the electricity to the engine which makes the train go. And it goes fast—167 miles per hour!

◇ *Monorail* trains run on one track. They are fast and very quiet. And because they run on a rail built high above the ground, the land around them can be used for roads and



**Monorail**

parks. The first monorail in the United States was built at Disneyland in Anaheim, California, in 1957. The Disney World monorail in Orlando, Florida, is 15 miles long!



**TGV**



**Amtrak**

# TRAIN HEROES



## JOHN HENRY

John Henry was a "steel-driving man." That is, he worked at building railroads and cutting tunnels throughout the South during the 1870s. He was 6'4" and strong as an ox, according to legend. He didn't use power tools, and he needed six men just to sharpen his tools and carry them back and forth. But when the power drill was invented, John Henry was out of a job. He challenged a man with the power drill to a contest to see who could dig a tunnel faster. Legend has it that John Henry won the contest, but that night he died in his sleep from exhaustion.

## CASEY JONES

Casey Jones was the engineer of the Cannonball Express, the fastest mail train between Chicago and New Orleans. One night in 1900, Casey left the station in Memphis late. To make up the time, he pushed the Cannonball as fast as it would go. The Can-

nonball was zooming south when Casey saw a signal warning him that another train was stalled on the track in front of him. Casey plowed into the train and was killed. But not before he had slowed down enough so his partner could jump from the Cannonball and save his life. Casey was mourned by railroad folk everywhere and a song, "Casey Jones, the Brave Engineer," was written about him.

## KATE SHELLEY

In 1881, on a rainy night in Boone, Iowa, 15-year-old Kate Shelley looked out her bedroom

window to see if her father was coming home. In horror she watched as the bridge across Honey Creek collapsed! She had to get to the stationmaster across the gorge and tell him to warn the train's engineer. So, in the storm she crossed the wreckage of the bridge. Her lantern blew out halfway across, but Kate went on. Finally she reached the stationmaster and he flagged down the train. All railroad folk still remember her heroism in songs and stories.



ILLUSTRATIONS: ROBERT JEW

# GREAT TRAIN ROBBRIES



Some people look at trains and see a great way to travel. Others look at them and see passengers carrying money and jewelry, safes stuffed with cash—all traveling according to an exact timetable. What would be easier than to stop the trains and get the money? At least that's what these famous train robbers thought.

In 1963, a gang of 20 to 30 men managed to successfully rob an English mail train by using a daring and elaborate plan.

First, they attacked a signal-man and switched on the red "danger" light. When the driver saw the light, he stopped the train—and the robbers took more than two-and-a-half million English pounds. The robbery worked like clockwork—until the gang was caught a short time later.

One of the most famous train robberies occurred in 1855 in England. Robert Agar and two other men planned for a whole year to rob a London train, and they got away with \$30,000 in gold.

It was a perfect stickup—except they got caught two years later and were put in jail for life. But they had the last laugh—no one ever found the \$30,000.

One of the first train robberies in the United States was committed between St. Louis and Cincinnati in 1865. Armed men jumped aboard a train and forced the passengers to hand over all their money and jewelry. A second gang cracked the safe and took all the cash. Then the robbers made the engineer of the train drop them off in the middle of the countryside—and no one ever found out who they were.

Jesse James and his gang regularly robbed trains and killed people who got in their way. His last robbery was in 1881, just outside of Kansas City, Kansas. James and his gang boarded a train and tried to get to the safe. The conductor was killed. Then a passenger. Then the gang cracked

the safe, took the money and fled—with only \$600. Jesse James was killed a year later.



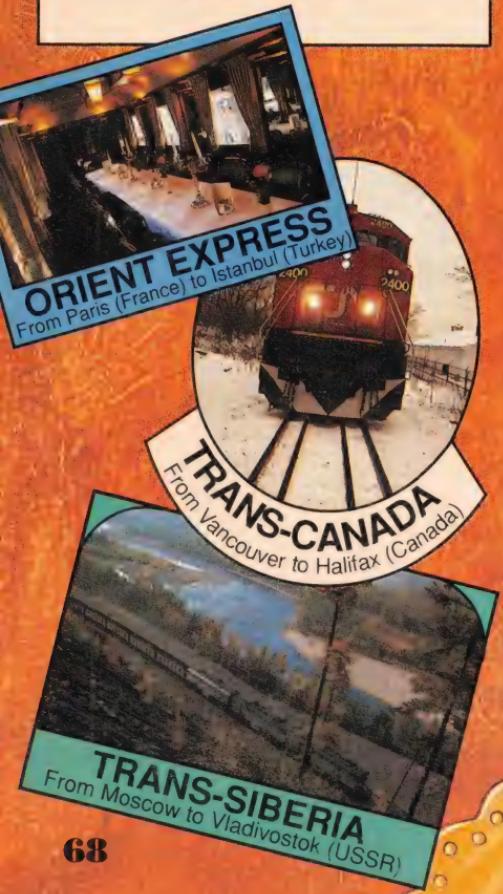
JESSE JAMES

# • TAKING AN EXPRESS

TO ANYWHERE

5

## Hot Railroad Routes Around the World



• 1 •

The Orient Express is one of the most famous trains in history. It ran from Paris, France, to Istanbul, Turkey. The first trip in 1883 took 81 hours and 41 minutes. Lots of famous people rode the train because it was so luxurious. It was known for its beauty and for being on time. It was so famous that Agatha Christie wrote a mystery novel called *Murder on the Orient Express*. The Orient Express made its last run in 1977. But the legend lives on.

• 2 •

The Trans-Canada Railroad was built to link all of Canada. The province on the Pacific coast, British Columbia, refused to join the Canadian union unless the Canadian government promised to build a railroad that would link it with the Atlantic coast in the east. So in 1871 the Canadians started to build a long railroad. When it was completed in 1885, it ran all the way from the city of Vancouver in the west to Halifax in the east. The railroad is 3,200 miles long!

•3•

**The Trans-Siberia Railroad** in the Soviet Union is 5,787 miles long. It runs from Moscow, the capital of the USSR, to Vladivostok on the Pacific Coast. When it was first built between 1892 and 1905, the railroad didn't cross the Lake of Baikal. Passengers had to get off the train and ride a boat across the lake to a train waiting on the other side. In winter they rode sleighs across the frozen lake! Today, the trip from Moscow to Vladivostok takes 156 hours. This railroad never offered a luxurious ride. It was a workhorse train that helped the Soviet Union develop its natural resources.



**FLORIDA SPECIAL**  
From New York City to Miami (USA)

•4•

**The Florida Special** ran from New York City to Miami, Florida. Because it carried rich and important people south for



**THE LONG STRAIGHT**  
From Sydney to Perth (Australia)

business and pleasure, it was very luxurious. On its first run in 1888, people lit bonfires to illuminate its passage as it rolled past their towns in the night. Inside, a Hawaiian string quartet serenaded patrons of the dining car. Passengers didn't care how long the trip took because riding the Florida Special was like staying in a traveling hotel.

•5•

**The Long Straight** is what Australians call their transcontinental railway. Why? Because it is 2,500 miles long and it stretches in an almost straight line all the way from Sydney in the east to Perth in the west. The Long Straight was begun in 1850 and it wasn't finished until 1970. The train is an elegant, stainless steel series of cars flying over the prairies. It passes through the Nullarbor Plain, where temperatures reach 104 degrees, so all the cars are air-conditioned. It takes a whole week to ride from one end of Australia to the other.

# Ticket to Ride

♦ FUN ♦

## RAILROAD FACTS

### ♦ HOBOS ♦

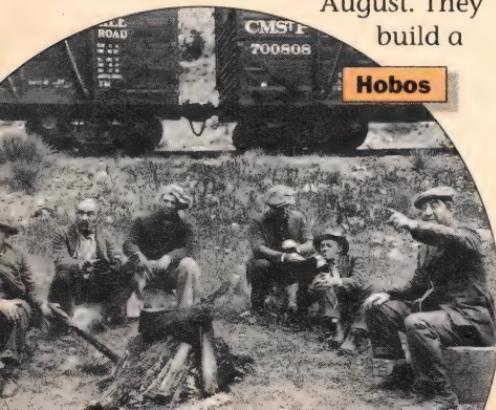
Does hopping on a train and going anywhere you like—at any time you like—sound good to you? That's just what some folks do. They're called *hobos*, people

**A "mud chicken" is a railroad surveyor.**

who travel from town to town by jumping on a train and getting jobs wherever they can.

A hobo's life sounds lonely. But every year the hobos gather at their very own convention. For 90 years they've met in Britt, Iowa, on the second weekend in

August. They build a



big campfire that burns for three days. They cook stew and drink coffee, have sing-alongs, tell stories and renew friendships. Then they elect a queen and king and have a big parade through town. *The Hobo Times*, a newspaper for hobos, reported that more than 1,000 hobos came to the 1990 convention—and 20,000 other people showed up just for fun!

**If a train hits an animal in Nebraska, the engineer must give the animal first aid and take it to the vet.**

### ♦ CAMPAIGNS ♦

When you're running for president of the United States, you want everyone to know it so they'll vote for you. Today, a politician goes on television and millions of people can hear what

## Franklin D. Roosevelt

the candidate has to say. But in 1896, TV hadn't been invented. So when William Jennings Bryan ran for president, he hopped on a train.

His idea was to visit as many cities and make as many

**It's against the law to sneeze on a train in West Virginia.**

speeches as possible. Every time the train stopped, Bryan ran to the back, stood on the caboose platform and made a long speech to the crowd that had gathered. He visited 27 states and made 600 speeches. A lot of people listened, but not enough. Bryan lost the election to William McKinley.

But Bryan had started a trend. Soon politicians everywhere were making "whistle stops" all over the country, just like Bryan, asking people to vote for them.

**A "lizard scorcher" is a cook.**



up to any train and could go anywhere the owner wanted. The Pullman Company built 350 private cars in the United States. George Pullman, the owner of the railroad company, built a car for himself that cost \$50,000. That was a lot of money 100 years ago!

The first private car in the United States was built for President Abraham Lincoln. It was used only once—to carry his coffin from Washington, D.C., back to his home in Illinois in 1865. Another private car—



**A private car**

## ◆ PRIVATE CARS ◆

Back in the heyday of railroads, many wealthy people owned their very own railroad cars. These cars could be hooked

named the Ferdinand Magellan—was built for President Franklin D. Roosevelt during World War II. It was armor-plated and had bullet-proof glass three inches thick!

# ◆MUSEUMS◆

If you want to know more about trains, check out these museums. They have real locomotives, model trains and much more!

## Railroad Museum of Pennsylvania

P.O. Box 15—  
300 Gap Road,  
Strasburg, PA  
17579  
717-687-8628

**All locomotives  
in Michigan  
must have  
curtains on  
their windows.**

## Illinois Railway Museum

P.O. Box 431—Olson Road, Union, IL  
60180 815-923-2488

## Colorado Railroad

Museum  
P.O. Box 10, 17155 West  
44th Avenue,  
Golden, CO 80402  
303-279-4591

## California State Railroad Museum

111 I Street, Sacramento,  
CA 95814 916-448-4466

## Traveltown

5200 Zoo Drive, Los Angeles, CA  
90027 213-662-5874



**A train museum**

# ◆HOTELS◆

How would you like to sleep in a caboose? You can! The Red Caboose Motel has 40 red cabooses that you can rent for the night or the week. Or you can stay at the famous Chattanooga Choo Choo in Chattanooga,

Tennessee. It has 24 railroad cars made into rooms. And it has the largest toy train museum in the world.

**Red Caboose Motel**  
PO Box 102, Strasburg,  
PA 17579 717-687-6646

**Holiday Inn Chattanooga  
Choo Choo**  
1400 Market Street, Chattanooga, TN 37402 615-266-5000



**A train hotel**

# ◆ TRAINS TODAY ◆

The United States has more miles of railroad track than any other country in the world—but we don't ride trains as often as people in other countries do. In Japan, 90 percent of the people prefer to travel by the Bullet Train rather than by car or airplane. The Soviet Union sells more than three billion tickets a year—and India sells more than one-and-a-half trillion tickets annually!

# Toy

BUILDING



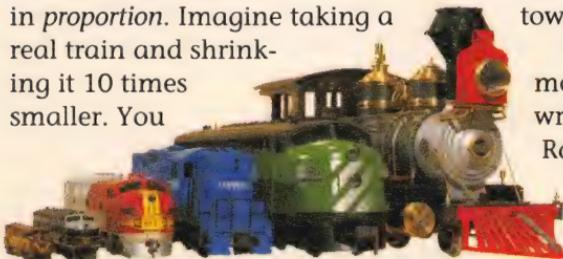
# Trains

YOUR MODEL RAILROAD



Almost as soon as the first locomotive chugged down the tracks, toy-makers started producing miniature trains, and kids started collecting and playing with them. But the first working models of trains were built by manufacturers of the real locomotives. The salesman for a locomotive company would take his working model to the president of the railroad company and show him how the locomotive worked. The salesman's job was to convince the railroad company to buy his locomotive, and having a working model built to scale helped make the sale.

Built to scale means that the model was just like the real train in *proportion*. Imagine taking a real train and shrinking it 10 times smaller. You



**Model trains look like real trains—in miniature.**

would have a "scale model" of the real train. It would match in every detail.

Today you can buy several sizes of scale model trains. Each model has a letter that stands for its name. So if someone says, "I have an HO model train," you know it's built  $\frac{1}{7.3}$  inch to scale. Here's a chart showing some of

NAME OF MODEL	SIZE
G	$\frac{1}{2}$ " = one foot
O	$\frac{1}{4}$ " = one foot
S	$\frac{3}{16}$ " = one foot
HO	$\frac{1}{7.3}$ " = one foot

the different sizes of scale model trains.

Model trains are

great by themselves. But once you have the train and tracks, you can add tunnels and bridges. You can landscape with trees, grass, roads, hills and mountains and even entire towns—all to scale!



If you'd like to know more about model railroads, write to the National Model Railroad Association, 4121 Cromwell Road, Chattanooga, TN 37421, or call them at (615) 892-2846.

Walt Disney Pictures Presents

# SHIPWRECKED!

A Classic Tale of Adventure

from

Disney  
COMICS™



Follow a courageous young boy on a voyage of mutinous intrigue, as he is stranded on a deserted isle, with a cave full of treasure and the imminent return of the pirates who left it there.

On Sale NOW at your favorite comics shop.

# THE GREAT TRAIN STORY

AW, DAD,  
DO WE HAVE TO?  
THIS VACATION  
IS NOTHING BUT  
MUSEUMS!

AND  
WALKING!  
LOTS OF  
WALKING!

JEFF,  
WE CAN'T GO ON  
ROLLER COASTERS  
EVERY MINUTE!

A BIG  
Adventures  
COMIC STORY

C'MON. YOU'LL  
LIKE IT. GIVE IT  
A CHANCE.



Writer: Bill Rotsler

Artist: Dan Spiegle

Lettering: Carrie Spiegle

Coloring: Sam Parsons

WE  
SHOULDN'T  
EVER FORGET  
HOW IMPORTANT  
RAILROADS HAVE  
BEEN. NOT ONLY  
TO AMERICA, BUT  
TO THE WHOLE  
WORLD.

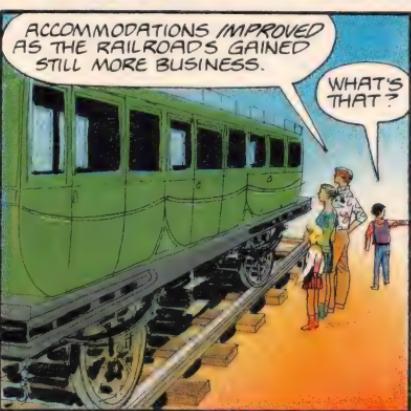
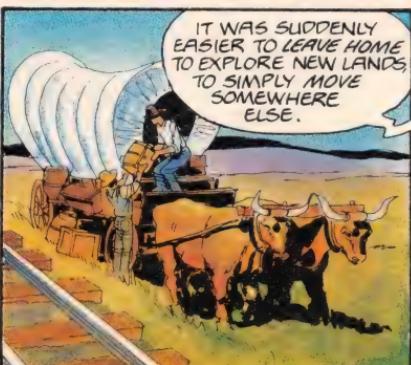
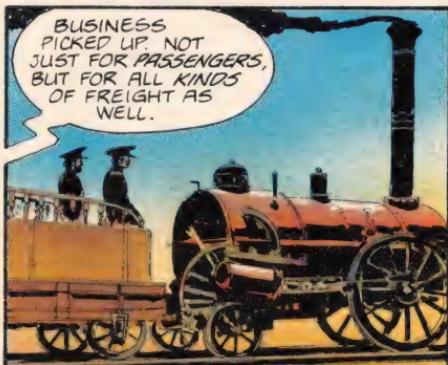
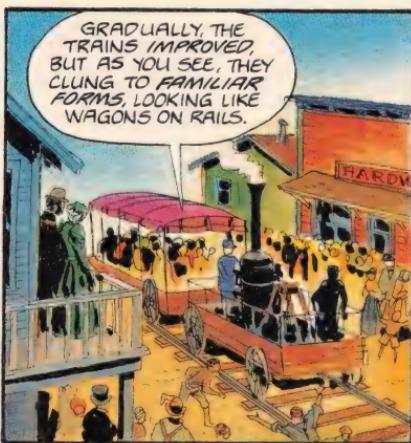
I USED TO  
LOVE TRAINS WHEN  
I WAS GROWING UP.  
YOU KNOW THEY  
HELPED SHAPE  
OUR WHOLE  
WORLD.

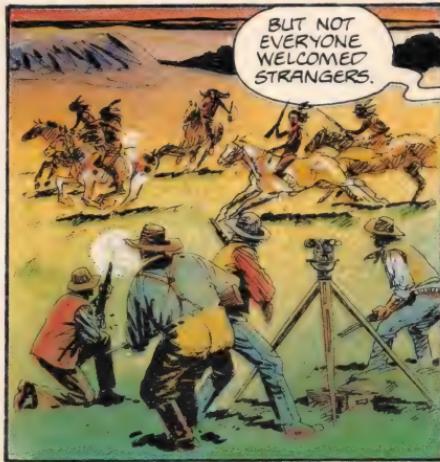
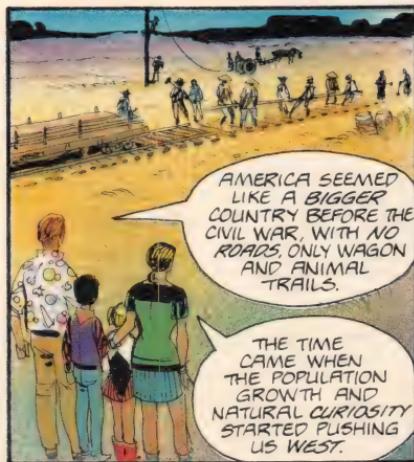
WHO  
CARES ABOUT  
BACK THEN? EVERY-  
ONE GOES PLACES  
BY SUPERSONIC  
PLANE NOW!

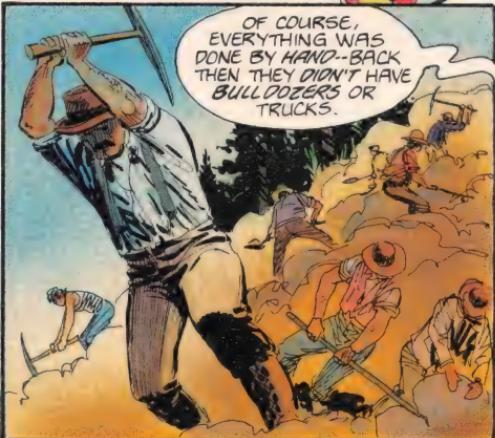
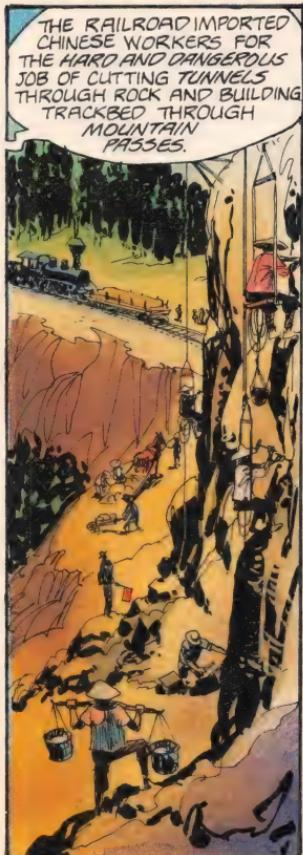
NOT  
EVERYONE,  
JESSICA.  
OUR HOLOGRAPHIC  
THEATRE IS STATE OF THE  
ART! YOU WILL BELIEVE YOU  
ARE REALLY THERE, IN THE  
GOLDEN AGE OF RAIL  
TRANSPORTATION!

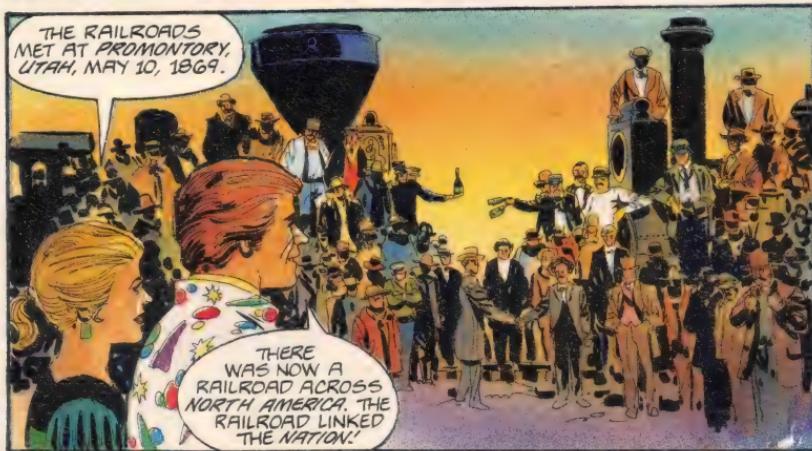
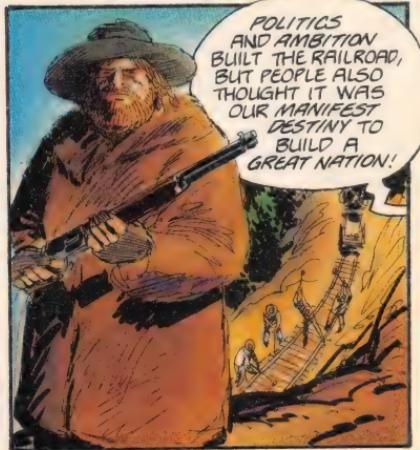
IN THE OLDEN  
DAYS FEW PEOPLE  
WENT FURTHER  
THAN 25 MILES FROM  
HOME, BUT THE  
RAILROADS CHANGED  
ALL THAT!

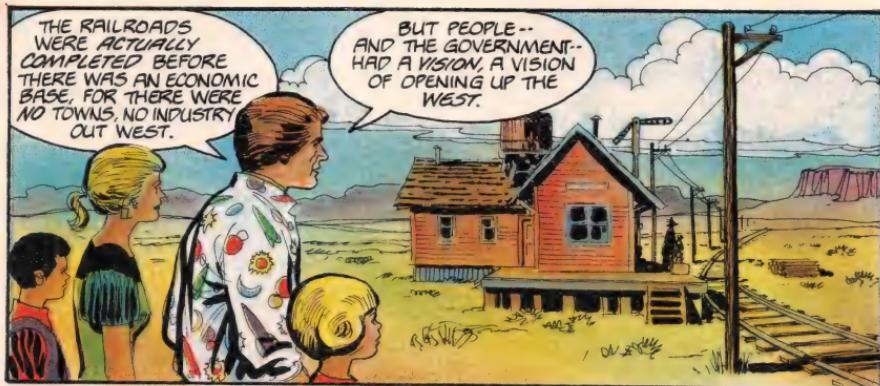
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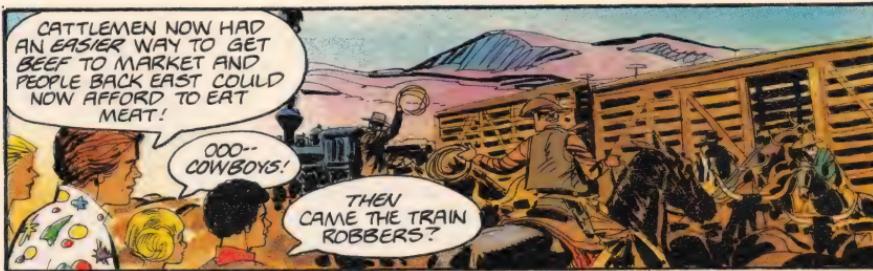


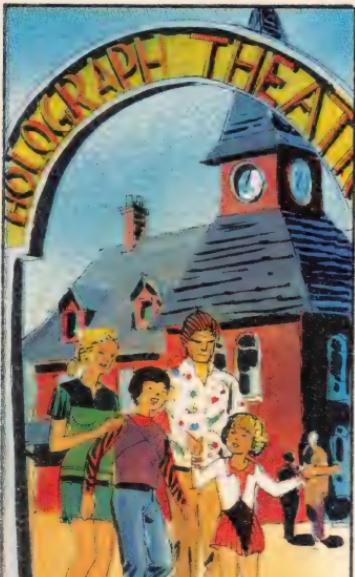














# Living in a **GLASS** City

**Scientists plan to live in this closed-off world  
for two years—without leaving**

Biosphere 2 is a big space colony—just the sort of place that you might visit some day on the surface of the Moon or Mars. But this one, the first of its kind, is right here on Earth, in the hills north of Tucson, Arizona. (You're probably

wondering why the place is called Biosphere 2 if it's the first one ever built. Can you guess the reason? Biosphere 1 is the planet Earth!)

Inside its three acres of great, greenhouse-glass buildings, Biosphere 2 is a

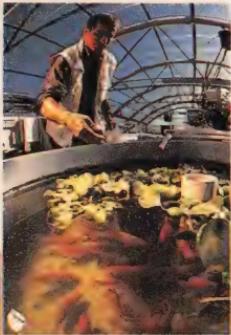


**The eight "biospherians" suited up and ready to go.**

world in itself. It contains a miniature ocean (only 30 feet deep), a tropical forest, farmland, desert, and even an artificial mountain, 50 feet high, complete with a waterfall running down its side. Nearly 4,000 kinds of plants, animals and insects inhabit this new world, including a colony of bats and a family of bush babies (small monkey-like animals from Kenya). Eight human adventurers are joining them this spring. Their goals: to live in this unique

environment for two whole years, to study how such environments work in Biosphere 1, and to prove that humans could live in such a place in space.

Once they are sealed inside, the "biospherians" will eat the crops they raise for food, including rice, wheat, beans, fruits and vegetables. They'll fish for seafood in their waterways. And they'll get all their eggs, milk, cheese and meat from their Biosphere 2 domestic animals—chickens, pygmy goats and Vietnamese potbellied pigs. Since they'll be closed off from the rest of the world, the biospherians won't be able to send out for pizza or groceries. They can talk by telephone to people on the outside, but they'll be trying to take care of their own needs inside, just like astronauts in space.



**Tending the fish ponds.**



**Biosphere 2 covers three acres of Arizona desert.**

They'll have lots more room than astronauts, though. Each of the four men and four women will have an individual apartment in the six-story building attached to Biosphere 2. They'll have access to a library and an exercise room. They'll even be able to go boating and scuba diving in their little ocean where coral, fish, and plants ride the machine-made waves and tides.

More than 200 scientists from all over the world worked on Biosphere 2. They spent six years planning and building its unusual structures

and special recycling systems. Now they'll get to see how their ideas hold up in a tough, real-life test.

The world will be watching the biospherians and learning from their experiences.

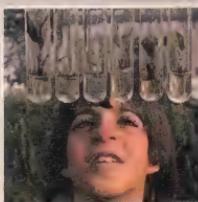
Anything could happen. What if there's a population

explosion among some of the insects? What if some of the animals—or the biospherians themselves—get sick? What if they can't get along with each other inside, or just can't wait to get out?

Stay tuned to this unfolding adventure for the exciting developments.

—Dava Sobel

**Monitoring plant growth.**



## CITIES

## UNDERGROUND



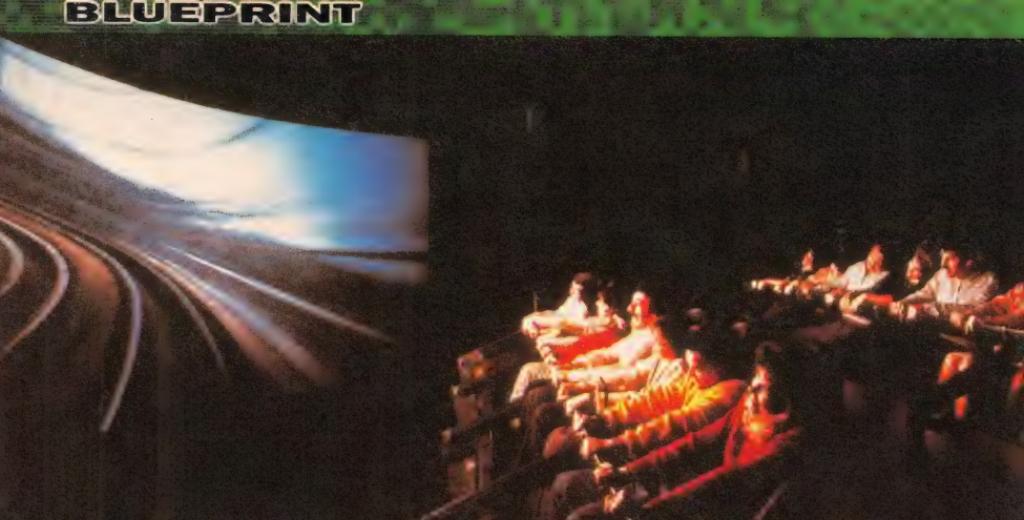
Deep underground, Japan is working on its "Alice Cities."

These futuristic down-towns are called "Alice Cities" after *Alice in Wonderland* and the little girl who fell down the rabbit hole into incredible adventures. Such cities would save space by extending 500 feet below street level. They would also save energy, because the temperature underground doesn't change much from summer to winter.

If you lived above such a city, you'd hop on an elevator from your home at the surface down to the heart of town. There you'd ride escalators through the many levels of shops, banks, offices, theaters and restaurants. Visitors would stay in below-ground hotels, down where the action is.

Some large cities in Japan already have underground walkways and shopping malls. But these are nothing compared to the huge underground communities that we'll see in the next 15 years.





# MOVIES OF TOMORROW



## Here's what movie theaters have in store for you

You're sitting in a movie theater. An enemy jet is closing in. It jumps out of the screen, the pilot pulls the trigger, you're thrown back against your chair with the recoil, and the smell of smoke drifts by. As the plane dives, your stomach turns over....Don't worry, it's only a movie—shown in a theater of the future.

Most of these effects already exist today in special attractions like Disneyland's *Star Tours*.

But everyday movie theaters, too, are scrambling to keep up with new technology. For example, the size of each picture on the actual film (each one is called a "frame") affects how

sharp and big the image on the screen can become. Traditional movie frames are 35 millimeters wide (the size of a slide) projected onto flat screens. Now, many theaters use 70 millimeter film (over two inches wide) projected onto curved screens. Some mall theaters have *torus*, or domed, screens so that the movie appears to surround you. Experimental formats like IMAX use even bigger frame sizes by turning the frames sideways along the film. These movies are being shown on enormous screens in special theaters—usually at museums and theme parks.

In another experimental

system, called *Showscan*, the film is sent through the projector at a faster-than-normal speed. Instead of 24 frames traveling through the projector every second, *Showscan* pushes 60 frames through every second—and the movie looks so real that you feel you could walk right into it.

In-theater special effects are the next breakthrough area. In the *Star Tours* ride, people sit in chairs built on a platform that moves with the movie. Some *Showscan* theaters have seats

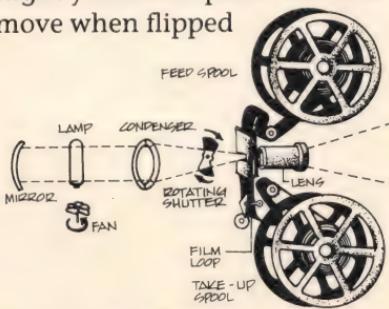
mounted on platforms with lifters and seat belts. The seats rise and fall to produce hair-raising car chase and roller-coaster action when combined with the super-realistic images on the screen.

So in a few years, when a rocket blasts off on a movie screen, it will definitely be an out-of-this-world experience. And you'll be glad you buckled up your seat belt! —Jeffrey Young



## How Movies Work Now

Movie projection hardly changed for years after Thomas Edison invented it in 1889. If you've played with a flip-book, you know the basics: A collection of slightly different pictures seems to move when flipped



through fast enough.

Movies work the same way. A film has a series of single pictures, each the size of a photo

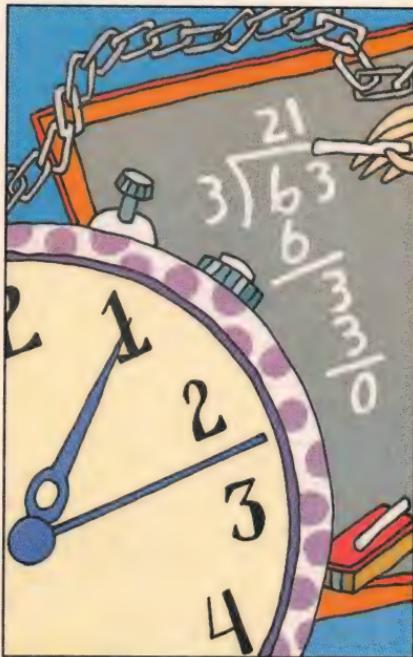
**Moviegoers watch a film on Circle-vision, a screen that surrounds the audience.**

slide. These "frames" are printed on a long strip of plastic (the actual "film"). The film moves past a powerful light through a gate called a "shutter." The shutter opens and closes very quickly, letting the light shine through the film at each frame. The light is focused by a lens and then projected on a screen. Because there are so many frames each second (24, in normal movies), you don't notice that the image is flickering.

## Every Breath You Take

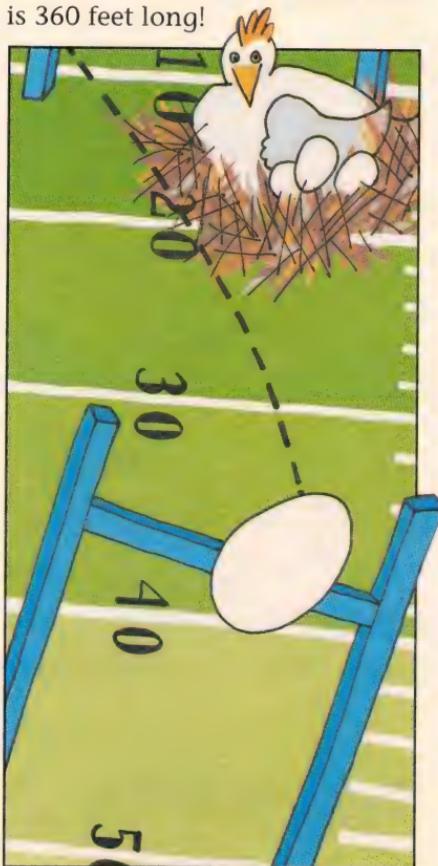
The older we get, the slower we breathe. A baby takes between 40 and 60 breaths a minute, while adults take only about 17. How many breaths per minute do you take? To find out, all you need is a watch or clock with a second hand. Count the number of breaths you take in three minutes and then divide by three. Is it closer to 17 or 60?

Of course, there is one part of your body that breathes all by itself. Your cornea (the outer coating of your eye) takes oxygen directly from the air!



## Egg-cellent Tosses

If you find an egg in your refrigerator and aren't sure if it's been cooked, take it out and give it a spin. Raw eggs won't spin, but cooked ones will. And speaking of eggs, the longest recorded distance for throwing a fresh, uncooked hen egg is 317 feet 10 inches—pretty neat when you consider that a football field is 360 feet long!



## Night Moves

Did you ever notice how sometimes when you're asleep, you'll get a sharp, tightening pain in your leg? There you are, nestled under the covers, dreaming about your new Lamborghini, when suddenly—ouch!!! It feels like someone is squeezing your calf muscle from the inside! Well, don't worry. It's nothing serious. You've just been the victim of a "hypnic jerk." That means that a whole bunch of tiny nerves in your leg have all fired at once on your muscle. Some people say that to ease the pain you should either put a warm compress on it or rub it gently.



ILLUSTRATIONS ANN THORSTEINSSON

## What's the Point?

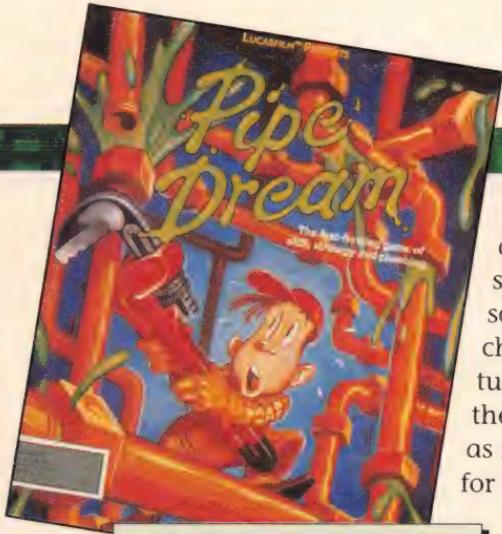
The next time you're writing with a ballpoint pen, look closely at its tip. The ball may look smooth, but it's really rough. It may look like one piece of metal, but it's actually made from millions of tiny bits of metal all squeezed together. And it may look solid, but it's as full of holes as a sponge. The ball soaks up ink, and the ink keeps oozing through the holes. That's how you can write on and on and on—well, at least until you run out of ink.



Check out these great electronic games. If you have any questions or comments about the games, or have games you want us to review, write to us at DISNEY ADVENTURES, CyberGames, Disney Publications, 500 South Buena Vista Street, Burbank, CA 91521.

### CYBER SCALE

EXCELLENT!	■
PRETTY COOL	■
NOT BAD	■
LAME	■
BUMMER	■



GRAPHICS ■ CONTROL ■  
CHALLENGE ■ FUN ■

### PIPE DREAM

Pit your pipe-fitting ability against a stream of green sludge. As different pipe sections come tumbling down a chute, you must use each one in turn to build your pipeline. Plug the exits and gaps and try to use as many cross pipes as possible for big bonus points. **Formats:**

NES, Game Boy, PC, Mac, C64, ST, Amiga.



GRAPHICS ■ CONTROL ■  
CHALLENGE ■ FUN ■

### SPOT

Awesome, animated strategy game for 2 to 4 players. Pick the board layout you like and move spots around to capture your opponent's pieces. Secret bonuses for an extra turn or free move

are hidden under some squares. You can play against the machine, but it's awfully good and almost impossible to beat. **Formats:** NES, PC, C64, Amiga.

—David Ahl



# HEAVYWEIGHT TIFLES!

When it comes to the titles you want most in hand-held games, it's strictly no contest! Tiger is #1. Tiger brings you the best titles from sports, video, movies, TV, and of course, video arcades! Tiger's great game play brings you right to the edge where danger, adventure, and the spirit of competition collide. The fate of your favorite game characters, heroes, and athletes is in your hands — Tiger's hand-held portability lets you carry all the energy and excitement with you wherever you go.

**Video Excitement In The Palm Of Your Hand.**

**TIGER** ELECTRONICS  
INC.™

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Days of Thunder™ ©1990 Columbia TriStar Motion Picture, Inc.  
Duke Nukem™ ©1990 3D Realms, Inc. Licensed to Tradewest, Inc.  
Super Off Road™ ©1989 Tradewest, Inc. Licensed From The Leland Corp.  
Mega Man 2™ A Capcom game made by Tiger Electronics, Inc.  
King of the Beach™ TM of Electronic Arts

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**Guillina Blade™** Game is an SNG game made by Tiger Electronics, Inc.  
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Disney's **DUCKTALES™** "IT'S **LUCKY**  
TO BE **SMART**"

...NONSENSE!  
LUCK HAS NOTHING  
TO DO WITH IT!  
SUCCESS TAKES  
HARD WORK.

Oh,  
SCROOGE, YOU'RE  
AN OLD FUDGY-  
DUDDY. NOBODY  
NEEDS TO  
WORK HARD.

ALL IT TAKES  
IS LUCK, AS I,  
GLADSTONE GANDER,  
THE WORLD'S  
LUCKIEST DUCK,  
KNOW FULL WELL.



WAALUUGH! NONSENSE!  
YOU NEED TO BE TAUGHT  
A LESSON!

Mr. McDUCK!  
PLEASE  
CALM DOWN.

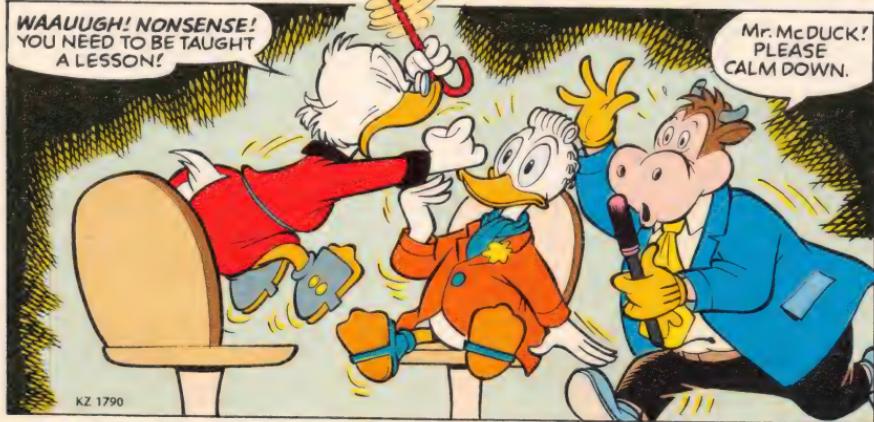


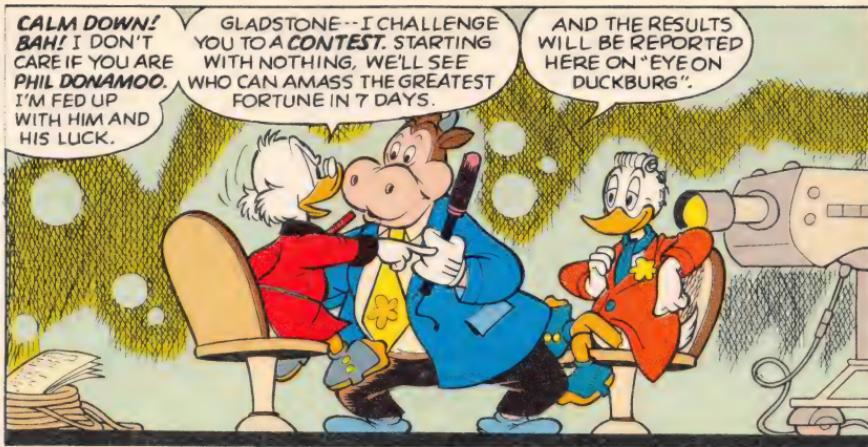
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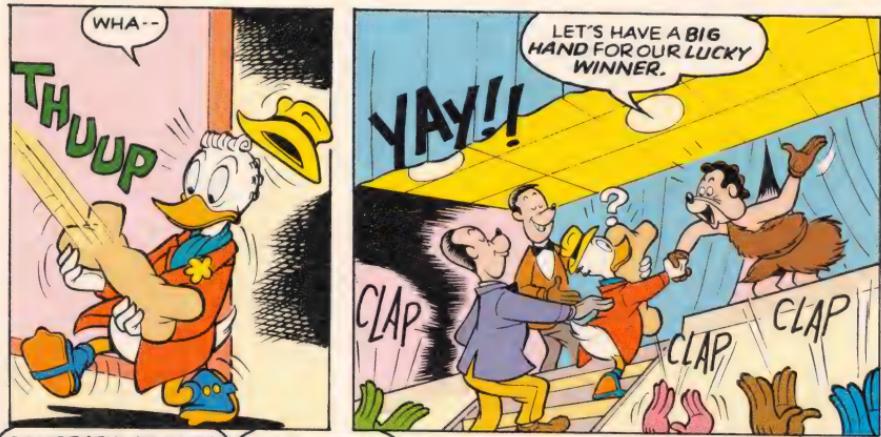
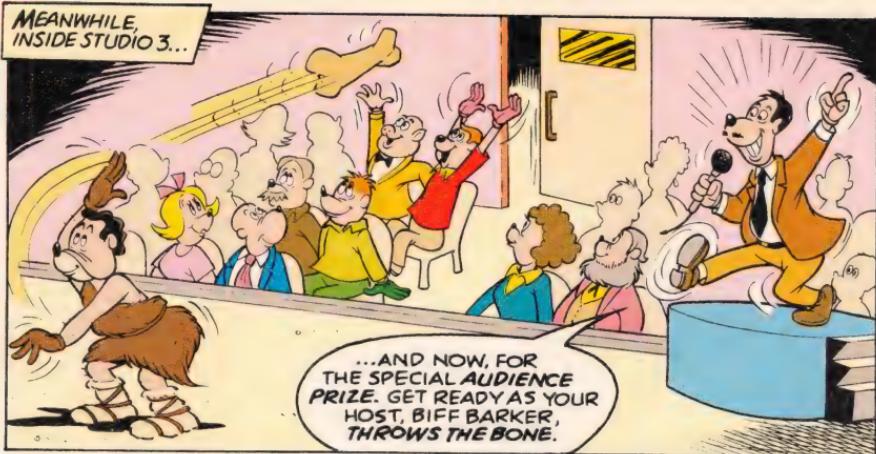
Writer: Craig Miller

Artist: Maurizio Amendola

Lettering: Lois Buhala



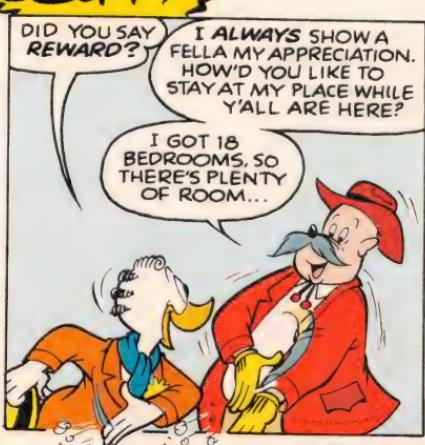
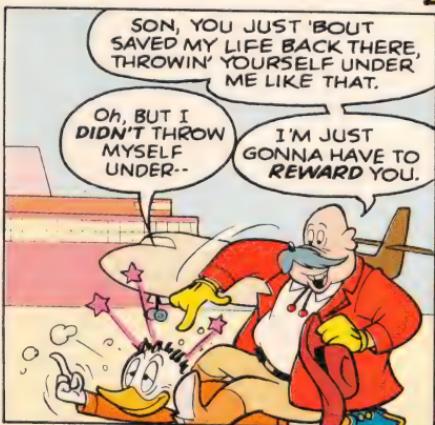
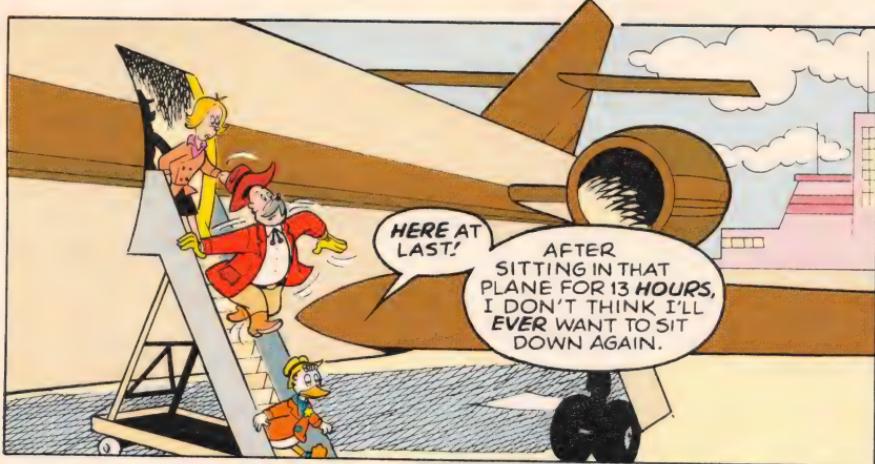


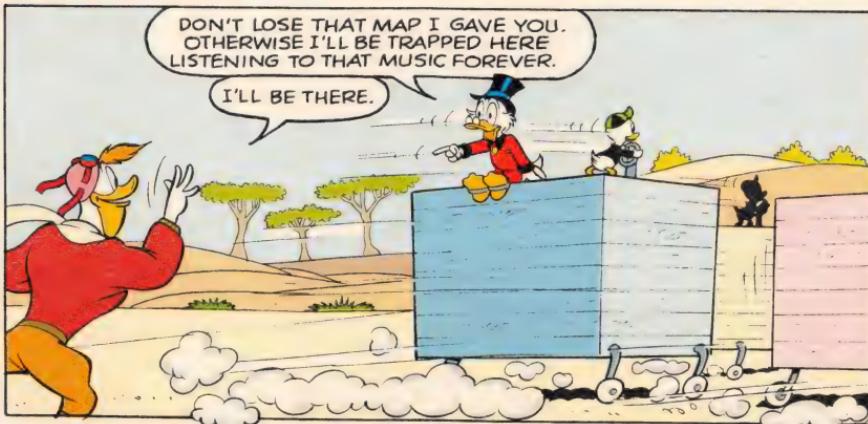
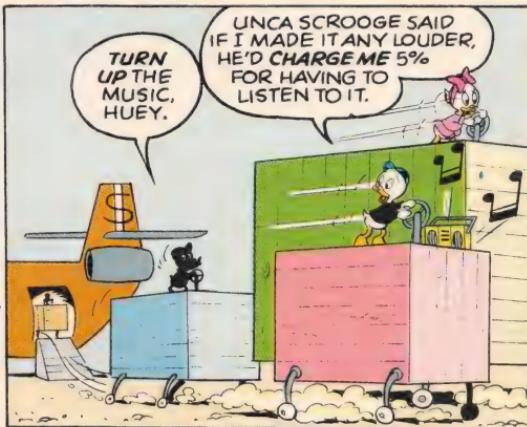


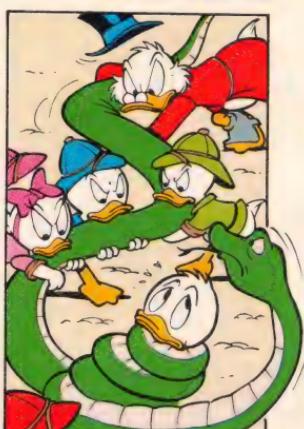


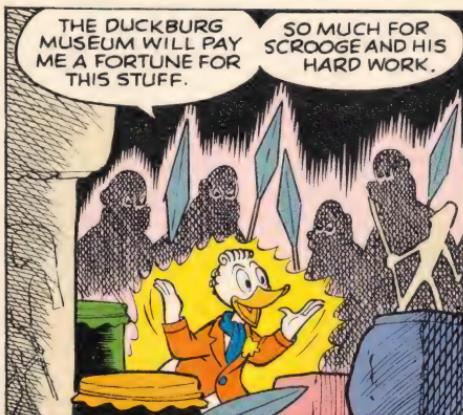
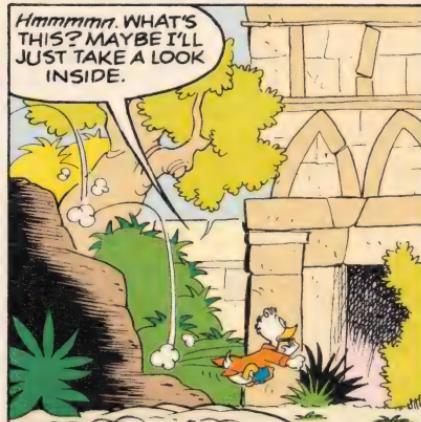


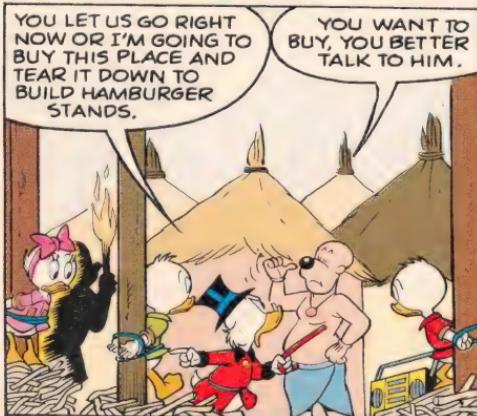
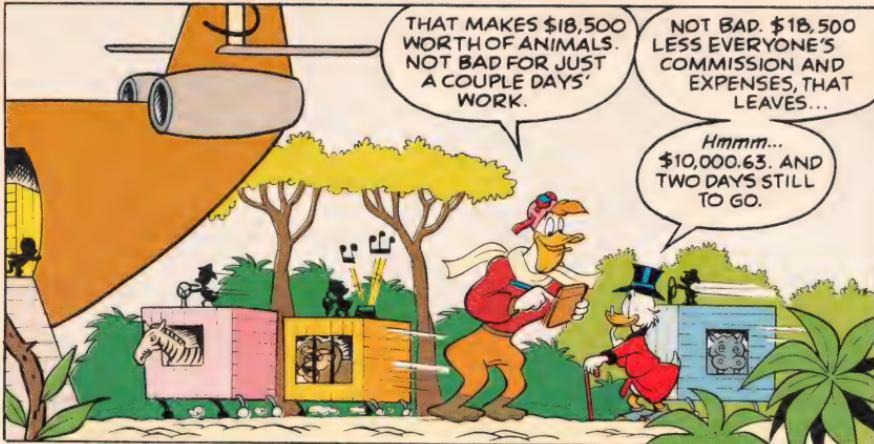


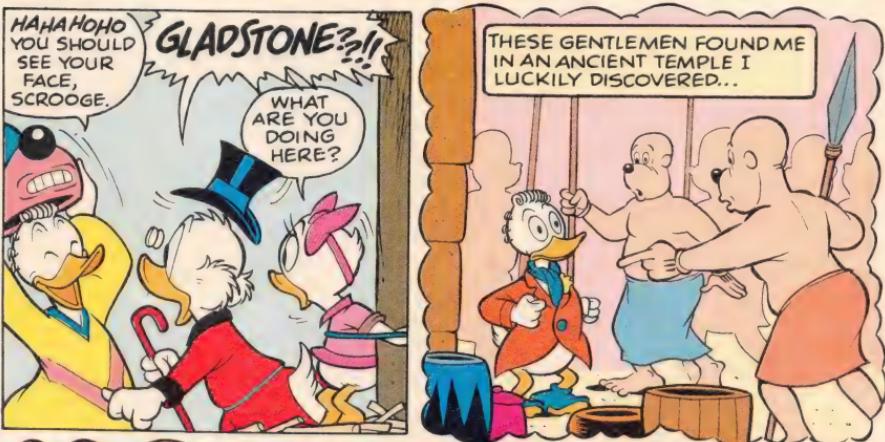
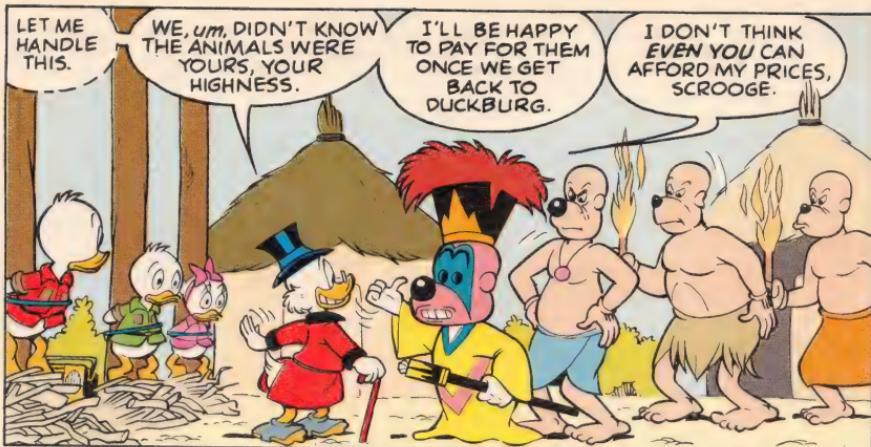


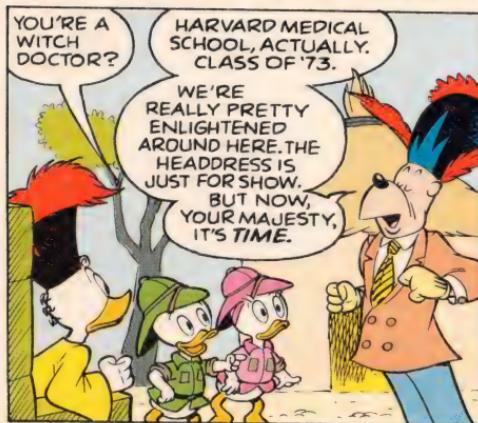
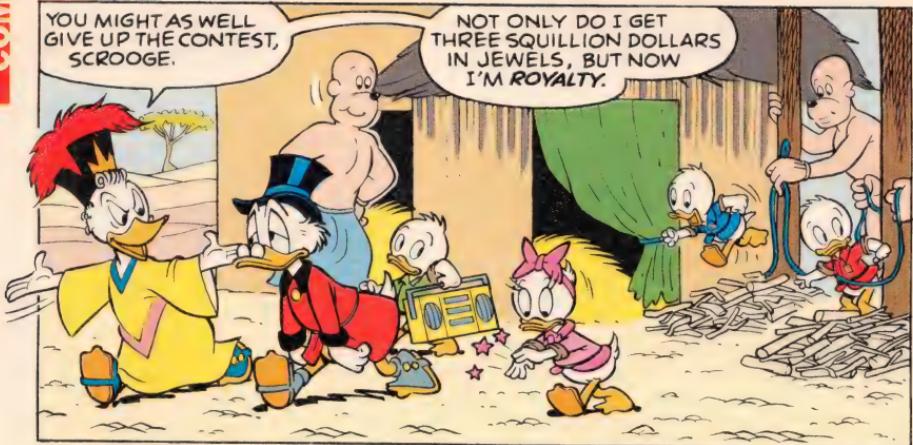












A TEST? THAT'S AWFULLY CLOSE TO DOING WORK.

AND IF THERE'S WORK INVOLVED WITH THIS KING STUFF, I'M NOT INTERESTED!



TOO BAD, BECAUSE YOU DON'T GET A CHOICE.



YOU HAVE TO BATTLE THE GREAT BLACK ELEPHANT AND SURVIVE.

THROW HIM IN!

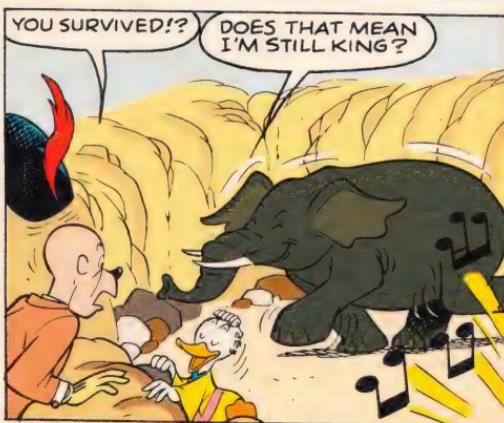


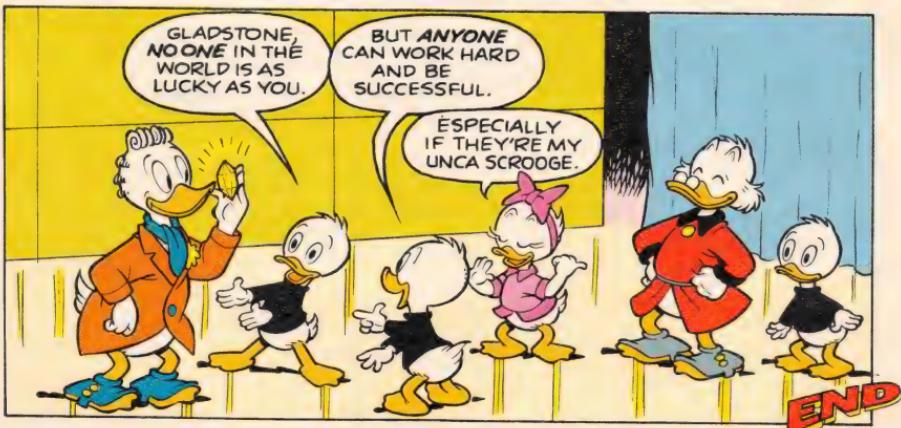
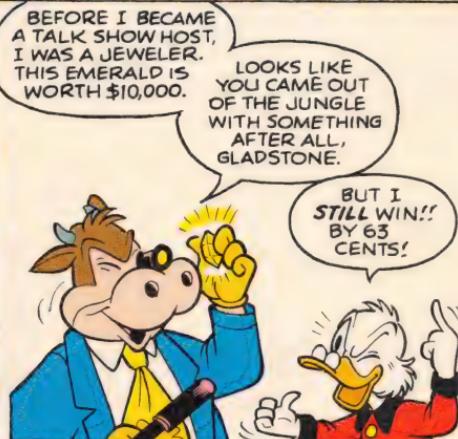
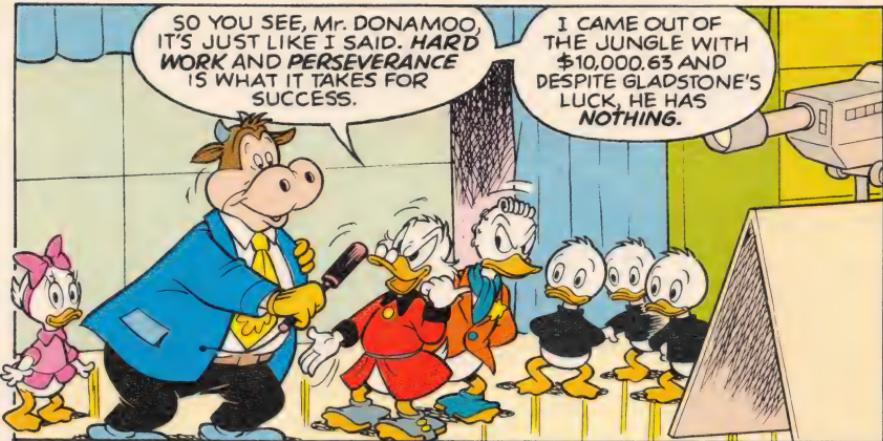
KE-THWUUUMP

HURRY! RUN!

GLADSTONE! LOOK OUT!









# For 10 days in July, L.A. won't be so laid back.

From July 12 through 21, America's Olympic and Pan American Games hopefuls will be running, jumping, vaulting and skating their hearts out all over L.A. See you at this world class event.

For tickets and more information, please call (213) 489-1440.

**L.A. U.S. Olympic Festival '91**



## SKI TO THE MAX!

**Steep cliffs and huge jumps  
are what extreme skiing is all about.**

What is extreme to you? Eating a whole gallon of peanut butter and chocolate ice cream in one sitting? Going to school in your pajamas to protest having to get up so early? How about pushing your skateboard cross-country? Well, if you're a skier, "extreme" means flying off the edge of a cliff and landing 70 feet below. It means dropping into a steep, narrow chute no one has ever set foot in before. It means doing things on skis nobody thought possible. ☺

ILLUSTRATIONS: CINDY BLACK, CHICONE



The center of extreme skiing is Chamonix, France, where there are few rules, and men and women will jump, climb and ski just about anything with snow on it.



**E**xtreme skiing has gained much attention in the United States ever since crazy-man/extremist Glen Plake walked onto the "Today Show" set wearing a foot-high mohawk haircut and a suit made out of a shiny American flag. Taking chances is what Glen Plake and extreme skiing are all about.

But Plake isn't the only extreme skier. In fact, the center of extreme skiing is in another part of the world, Chamonix, France, where there are few rules and a variety of men and women who jump, climb and ski just about anything with snow on it. True extreme skiing involves a lot more than getting on a lift. It takes all aspects of mountaineering, from climbing to hang





gliding, to be a real extreme skier.

Extreme skiers have done some truly amazing things. The first famous extremist, Sylvain Saudan, skied what people thought was the impossible—a 50-degree chute called Spencer Couloir, way back in 1967. Then Patrick Vallencant skied right under the world's steepest tram. Another French skier, Jean-Marc Boivin, skied a 60-degree face and a 65-degree chute, both previously untouched—on the same day! That's almost like skiing down the side of a building.

Extreme skiing is also dangerous. Many people, including Vallencant and Boivin, have died while attempting to ski near-vertical faces and to jump off the sides of mountains. That's why extreme skiers here in the U.S., guys like Glen Plake, prefer to have fun without the life-threatening consequences. They try to ski the same places you and I do, but faster, in deeper snow, even upside-down!

—Doug Palladini

# JUST FOR KICKS

## TAE KWON DO

Tae kwon do is a real kick.

What is tae kwon do? It's a martial art, like judo and karate. These sports all started in Asia, but tae kwon do is a little different. While most martial arts use hand and foot strikes, tae kwon do focuses on kicking 70 percent of the time. In fact, tae kwon do stylists are famous for their ability to leap high in the air, breaking targets with awesome flying and spinning kicks.

Tae kwon do started in Korea and was a demonstration sport in the 1988 Olympics. There are two parts to tae kwon do: *forms* and *sparring practice*. Forms are moving patterns that let students practice martial art techniques against an imaginary opponent.



**A high-kicking session is part of tae kwon do, which started in Korea.**

Sparring practice gives them a real opponent to fight under safe, controlled conditions.

How old do you have to be to learn tae kwon do? Well, Alana Dunnigan is a 10-year-old tae kwon do expert who has studied the sport for five years. She is now a California martial arts tournament champion in both forms and sparring competitions.

Competitions are about more

than winning, though. Alana believes that tournaments help her improve in the sport. She specializes in kicking techniques, especially the more difficult jumping and spinning kicks. Right now, Alana competes in the *traditional* forms division, showing established tae kwon do patterns. However, she will soon start appearing in the *open* division, performing a special pattern that goes along with fast-paced music.

She regularly spars against adults and boys in tae kwon do classes, with no fear of getting hurt. "I like sparring with



**Left:**  
**Ten-year-old Alana Dunnigan does a front kick.**



**Right:**  
**Alana's coach helps her practice her side kick.**

everybody. It's good self-defense practice. Plus everyone respects my own abilities, and I respect myself more because I know I can do it. That's a major benefit of tae kwon do training—you know you can accomplish whatever you try," Alana says.

—Jane Hallander



For safety reasons, protective headgear must be worn during both competition and practice sessions at tae kwon do schools. The headgear is a lightweight molded helmet made of thick foam material that can be purchased from any martial arts supplier. It protects the martial artist's head and face from accidental blows or falls.



①

TH

Imagine having a flying skateboard like Marty McFly's! You remember, in *Back to the Future Part II*, it was Marty's secret weapon. All he had to do to escape danger was hop on and soar away, with the board like a wing under

## ② REVVED UP

ASHING

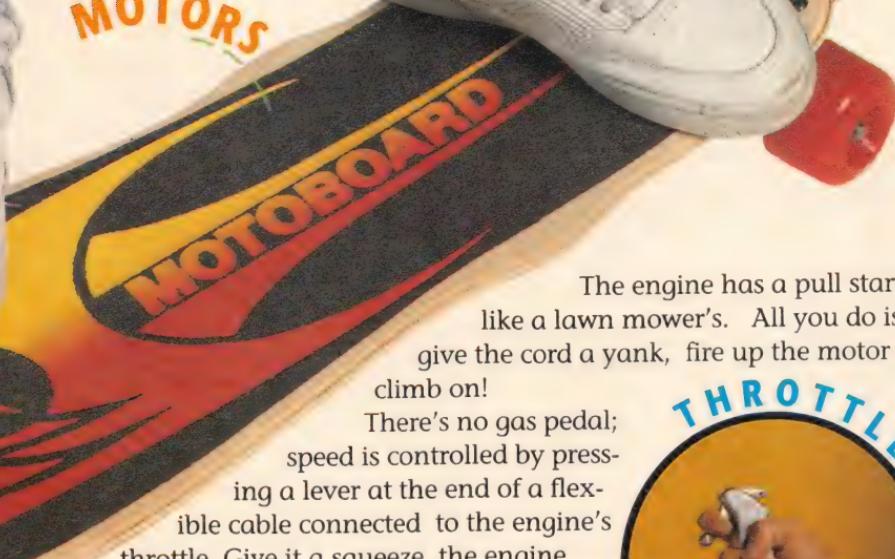
his feet. Well, that's still in the future, but there's a new invention that can take you part of the way. It's called a Motoboard, and while it won't launch you into space, it will turn kids' heads when it zooms down the sidewalk.

The Motoboard is a skateboard with an engine. It's bigger than a regular skateboard—the deck is almost a foot wide and three feet long—and it has a wider wheelbase for added stability and better control. The main difference is the 1½ horsepower engine hanging off the back. It powers the rear wheels through a drive shaft and can send the Motoboard down the road at speeds as high as 30 miles per hour.



(3)

A LOOK AT  
SKATEBOARDS  
WITH  
MOTORS



The engine has a pull starter like a lawn mower's. All you do is give the cord a yank, fire up the motor and climb on!

There's no gas pedal; speed is controlled by pressing a lever at the end of a flexible cable connected to the engine's throttle. Give it a squeeze, the engine speeds up, and off you go. There aren't any brakes, so forget panic stops; but as you let off the gas, engine compression slows the board down.

The Motoboard's fuel tank holds just over a pint of gas, enough for 45 minutes of cruising. That sounds like pretty good fuel economy, and a good thing, too. After you shell out \$699 for the board, you may not have much money left.

—Fred M. H. Gregory



## Kicks, Sticks and Whirls



Imagine playing Hacky Sack with sticks!

Well, that might be the best way to describe

**Haikichi**, the new game that has you spinning, balancing, and kicking a stick to keep it in the air! Each Haikichi stick is made of plastic and has four cones that make it easy to twirl. Haikichi sticks come in a bunch of different color combinations. They cost about \$19.

Some balls bounce high and some balls bounce low. But **Z Ball** bounces—well, you never can tell how it's going to

bounce! The weird shape makes it unpredictable! Z Ball is made of rubber and can be used in just about any open space with a flat surface. It comes in yellow and red



and sells for about \$8.

You don't have to be an expert to keep your Frisbee twirling.

Ultra Sports now makes the **Trick Spin Flying Disc**. The outside spins while the middle stays still, so with a little practice you can twirl this Frisbee on your fingers, your toes—even on your nose! The Trick Spin Flying Disc comes in turquoise and hot pink, and it costs about \$11.

You can find the **Haikichi** sticks, the **Z Ball** and the **Trick Spin Flying Disc** at most sporting goods stores.

*See some neat new gadget or sport gear we should know about? Please write and tell us about it at: GEAR, DISNEY ADVENTURES MAGAZINE, Walt Disney Publications, 500 South Buena Vista Street, Burbank, CA 91521.*

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PUZZLES, GAMES AND ACTIVITIES

## OFF THE TRACK

Can you spot 10 or more mistakes in this picture?

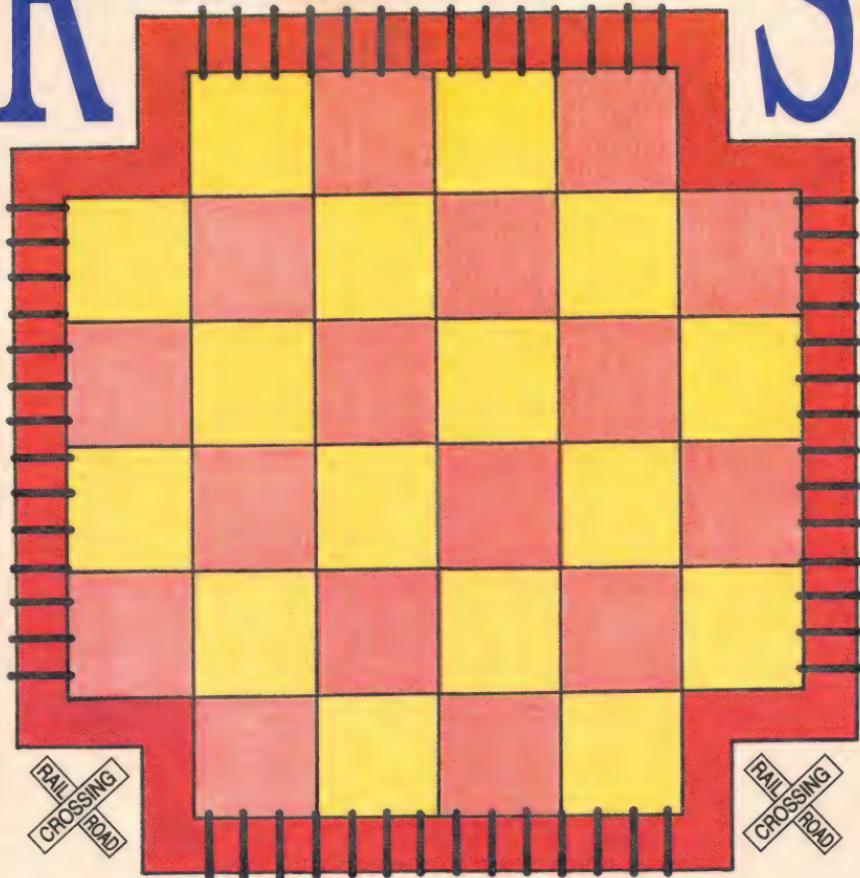


PUZZLE AND ILLUSTRATION: BOB FINGERMAN

See Answers on page 126.

# RUNAWAY TRAINS

PUZZLE: DOUGLAS BYRNE ILLUSTRATION: JENNIFER L. NELSON



Cut out the six train engines and arrange them on the squares so that no engine is in line with another, either vertically, horizontally or diagonally.

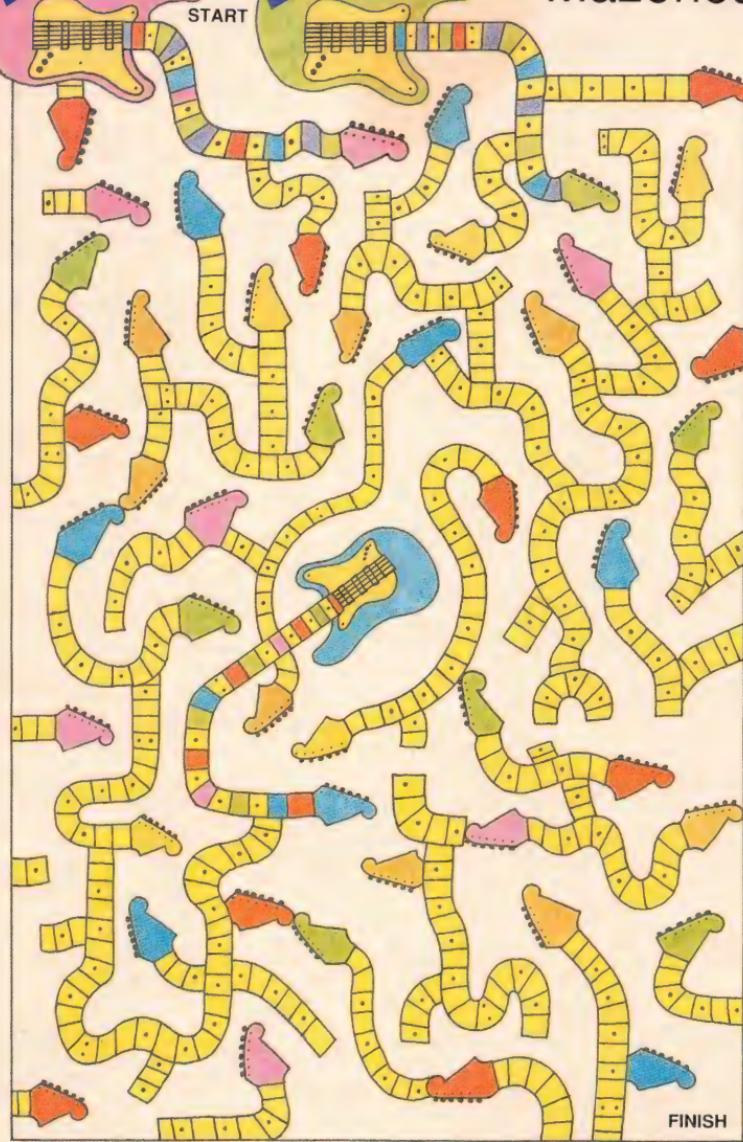


See Answers on page 126.

# FENDER

# BENDER

Rock Out,  
Mazeheads!



See Answers on page 126.

# TRAX

There are eight sets of tracks in this puzzle. Can you tell which set of tracks was the first to cross the page? How about the second, third, fourth, fifth, sixth, seventh and last to cross the page?  
CLUE: The tire tracks were fourth.

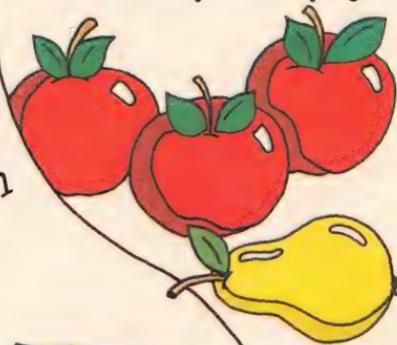
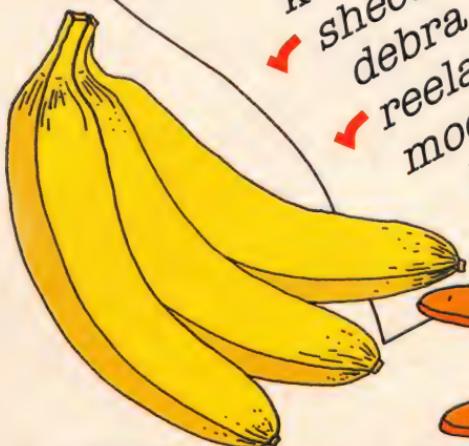


# MIXED-UP MARKET

At this supermarket, everything is mixed up. See if you can unscramble the grocery list and find out what you're buying.

## GROCERY LIST

pelpas netroshgin  
prages peepropin  
klim eric  
cujie kosocie  
shecee debra  
reelac mootesat  
lourf



JOURNEY TO THE FINAL FRONTIER  
IN THE NEXT

Disney  
**Adventures**

WHERE YOU'LL...

Discover the ups and  
downs of space travel

Read about a sandwich  
in a pressing situation

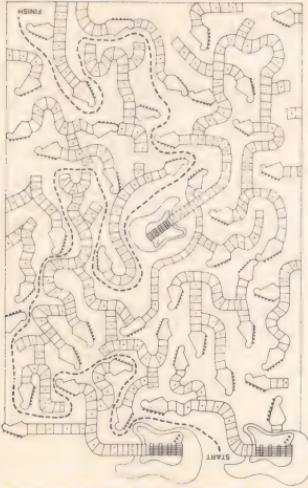
Ask Weird Al  
how long he's been weird

Launch into the high-  
tech world of rockets

Make excuses, excuses,  
excuses and more excuses

DON'T MISS THIS ISSUE ON SALE MARCH 12.

# ANSWERS

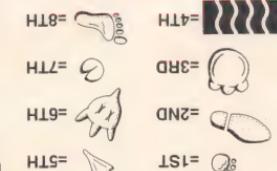


## FENDER BENDER

## TRAX

## MIXED-UP MARKET

## RUNAWAY TRAINS



We found 16 mistakes: 1) upside-down plane in sky; 2) "Please Litter" sign; 3) track 2 1/2; 4) man drinking soda has three arms; 5) middle support column is a tree; 6) gift has pet alligator; 7) train window has curtains and sash like a house window; 8) departure schedule shows overestimates; 9) woman buying ice cream cone at ticket booth; 10) woman's newspaper says "Nothing Happened Today"; 11) gap in the platform; 12) manhole in the ceiling; 13) clock reads 3:64 p.m.; 14) conductor has no shoes or socks; 15) boy has tails; 16) man is carrying giant hot dog instead of suitcase.

## OFF THE TRACK

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eric = rice

netrososhgin = shortening

peppropin = pepperoni

lourt = flour

moofesat = tomatoes

reelac = cereal

debra = bread

sheec = cheese

kosocie = cookies

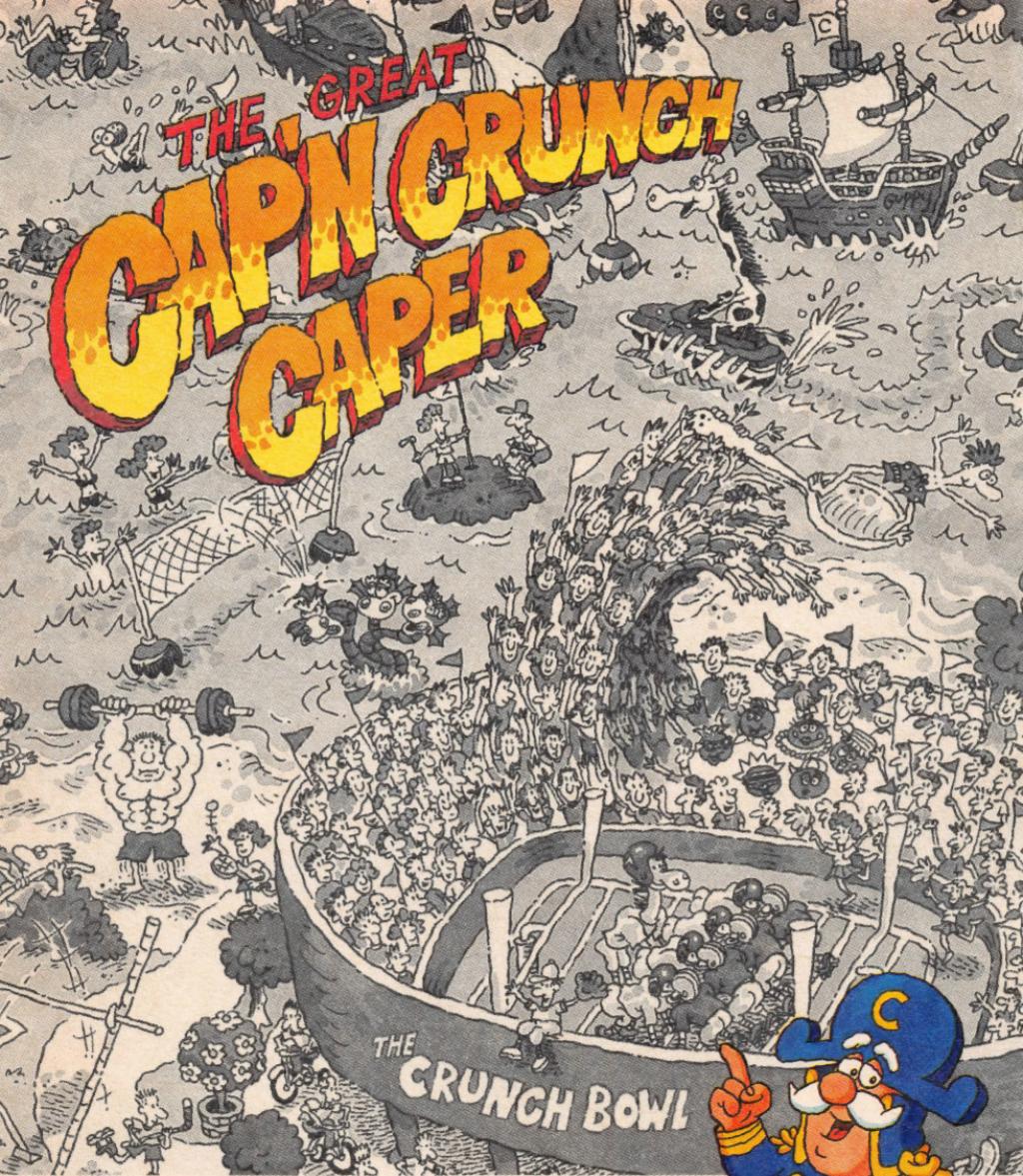
cuifie = juice

klim = milk

pragges = grapes

pebbas = apples

# THE GREAT CAP'N CRUNCH CRUNCH BOWL



"It's the Crunch Games. And if you can find the Crunchberries and their bush, the Peanut Butter Crunch Bird's egg and the Guppy, I'll send you a surprise!"

Just color them in and send this page to: Cap'n Crunch at the Guppy, P.O. Box 8230-A, Clinton, IA 52736. And send along your address and age so the Cap'n can track you down.



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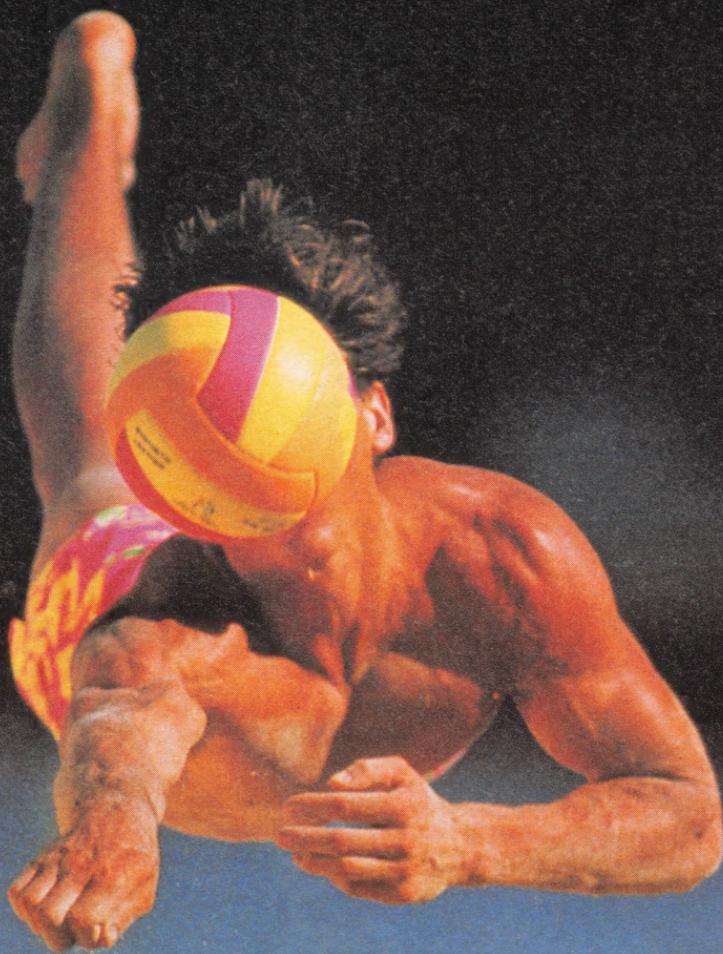
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can protect you from  
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face on this Nintendo  
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Amazon to the moon.

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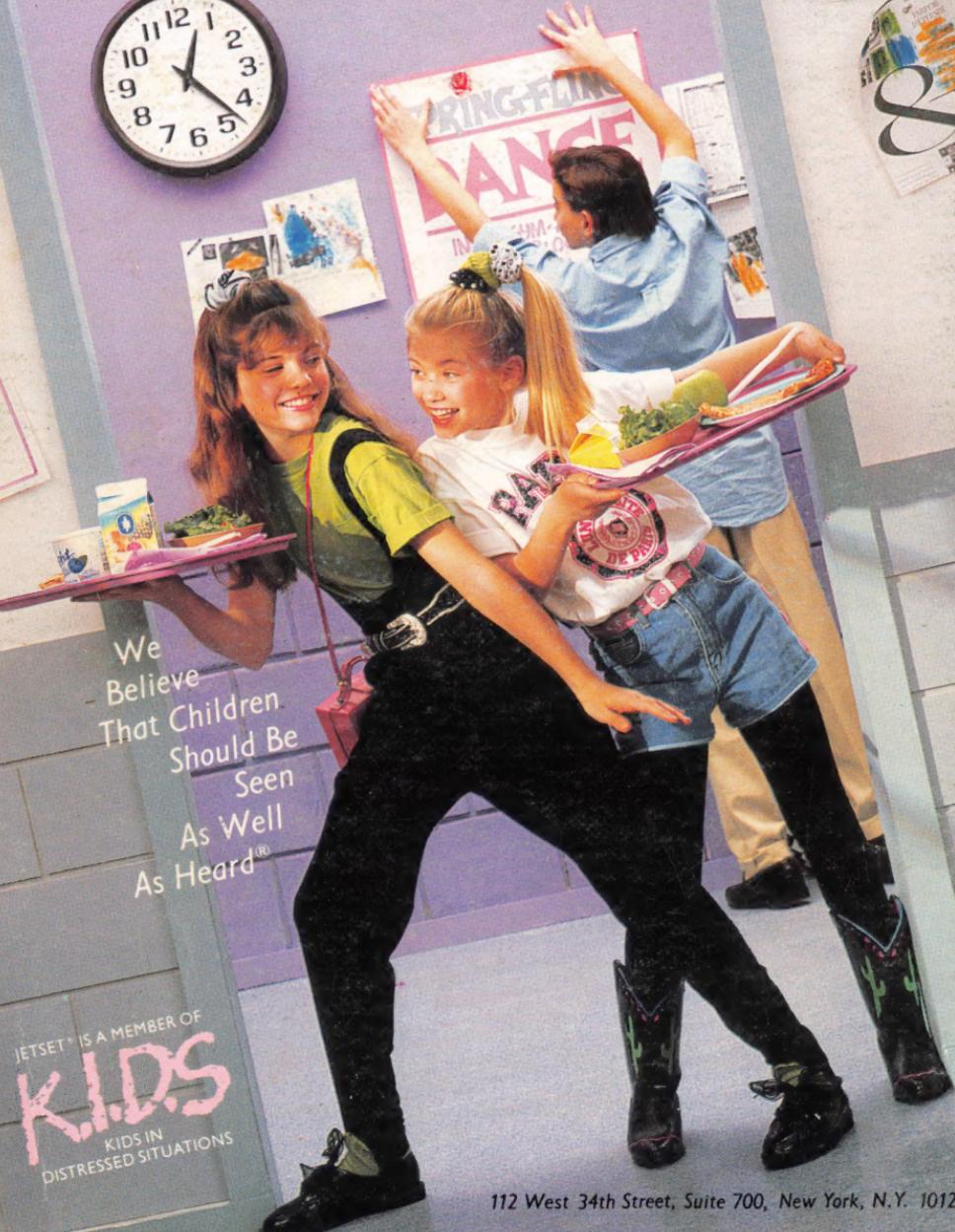
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